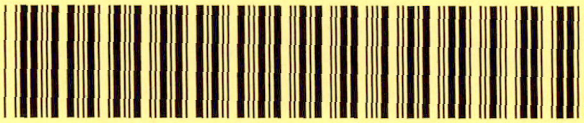
682IHSSF2217



DocumentID NONCD0002839

Site Name PERRY AUTO/YOUNG RESIDENCE

DocumentType Correspondence (C)

RptSegment 1

DocDate 4/4/2006

DocRcvd 2/20/2007

Box SF2217

AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

Incident Management Data Entry Record

Incident Information 4/4/2006 1:55:21PM

Incident Number	87538	Site Priority	
Incident Name	Perry Residence/Young's Auto		
Incident Address	4172 US Hwy 117 Alternate S.		
Incident City/Town	Dudley	Incident Zip	28333
County	Wayne		
RO Contact	Rose Ballance		

Responsible Party Information

RP Contact	Young, Ricky		
RP Company	Young's Auto Center & Salvage		
RP Address	4172 US 117 Alternate S.		
RP City	Dudley	RP State	North Carolina
RP Zip	28333		
RP Phone	9196317979		
Ownership Type	Private		
Operation Type	Unknown		

Contamination Information *GW Contamination (Y/N)*

Sources	Type	Wells	
Unknown	Other Petroleum Products	Private Well	1
		Private NonDrinking	
		Public Well	

Status Information

Report/Discovery Date	09/27/2005	Phase	Discovery
Notice Date		Next Due Date	
Next Action			
CSA Received		CAP Type	None
CSA Approved		CAP Received	
CSA Reviewed		CAP Reviewed	
Last Modified	02/16/2006	CAP Approved	
		CAP Implemented	

Locational Information

Latitude (DMS)		Longitude (DMS)	
Latitude (DD)		Longitude (DD)	
Lat/Long QC		Quadrangle	

Comments

Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage.

File

April 24, 2006

Rosemarie Balance, LG
Hydrogeologist
DIVISION OF WATER QUALITY
Aquifer Protection Section

Dear Ms. Balance,

We received a letter from Carrie Stone in November of 2005 asking for permission from the Department of Environment and Natural Resources to enter upon the ground waters under the authority of G.S. 143-215.3(a), including access to and permission to install monitoring wells to collect samples in association with our property located at 4172 A US 117 South Alternate, Dudley, North Carolina 28333.

We returned in December of 2005 a joint signed letter addressed to Carrie Stone, DWQ-Washington Regional Office, 943 Washington Square Mall, Washington, NC 27889 given the Department permission to conduct a water quality investigation.

We regret our letter did not reached the proper channel.

Once again, we are given in writing as well as phone permission to conduct a water quality investigation at 4172 A US 117 South Alternate, Dudley, NC 28333. As stated by your department, we will not interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Please feel free to contact me on my cell phone at (919) 738 - 1144 or my wife on her cell phone at (919) 273-0353 or our home phone at (919) 734-8455 for additional information or service.

Sincerely,

Johnnie Perry, Jr.

Please return to: Carrie Stone
DWQ-Washington Regional Office
943 Washington Square Mall
Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification: **Young's Auto Center & Salvage**
Parcel #2585683303 & #2585585104
#2585579497 & #2585673463
4172 US Hwy 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.

2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.

3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.

4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.

5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.

6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.

7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,

Signature(s): _____ Date: _____

Print Name(s): _____ Phone Number: _____

Address: _____

_____

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	AB04271
Date Received :	5/17/2006
Time Received :	9:00 AM
Received By :	DS
Released By :	SMM
Date reported :	6/14/2006

COUNTY : WAYNE
QUAD NO:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY

REPORT TO : WARO Regional Office
COLLECTOR(S) : C STONE
DATE: 5/16/2006
TIME: 10:05

[ ] CHAIN OF CUSTODY
[W] SAMPLE TYPE **WS-1**

PURPOSE:

Owner: JOHNNIE PERRY
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbidity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	umhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	Formaldehyde	mg/L
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

X	Ag-Silver 46566	5.0U ug/L
X	Al-Aluminum 46557	1000 ug/L
X	As-Arsenic 46551	5.0U ug/L
X	Ba-Barium 46558	280 ug/L
X	Ca-Calcium 46552	1.3 mg/L
X	Cd-Cadmium 46559	2.0U ug/L
X	Cr-Chromium 46560	25U ug/L
X	Cu- Copper 1042	100 ug/L
X	Fe- Iron 1045	290 ug/L
X	Hg- Mercury 71900	0.77 ug/L
X	K-Potassium 46555	2.5 mg/L
X	Mg- Magnesium 927	3.0 mg/L
X	Mn-Manganese 1055	55 ug/L
X	Na- Sodium 929	3.5 mg/L
X	Ni-Nickel	10U ug/L
X	Pb-Lead 46564	10U ug/L
X	Se-Selenium	5.0U ug/L
X	Zn-Zinc 46567	29 ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	AB04272
Date Received :	5/17/2006
Time Received :	9:00 AM
Received By :	DS
Released By :	SMM
Date reported :	5/24/2006

5/25/06

COUNTY : WAYNE
QUAD NO:

REPORT TO : WARO Regional Office
COLLECTOR(S) : C STONE
DATE: 5/16/2006
TIME: 10:15
PURPOSE:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY

[ ] CHAIN OF CUSTODY

TRIP BLANK

[W] SAMPLE TYPE

Owner: DEER PARK BOTTLED WATER
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L		Diss. Solids 70300	mg/L		Ag-Silver 46566	ug/L		Organochlorine Pesticides
	COD High 340	mg/L		Fluoride 951	mg/L		Al-Aluminum 46557	ug/L		Organophosphorus Pesticides
	COD Low 335	mg/L		Hardness: total 900	mg/L		As-Arsenic 46551	ug/L		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness: (non-carb) 902	mg/L		Ba-Barium 46558	ug/L		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/L		Ca-Calcium 46552	mg/L		Acid Herbicides
	TOC	mg/l		Specific Cond. 95	umhos/cm2		Cd-Cadmium 46559	ug/L		
	Turbidity	NTU		Sulfate	mg/L		Cr-Chromium 46560	ug/L		Semivolatiles
	Residue., Suspended 530	mg/L		Sulfide 745	mg/L		Cu- Copper 1042	ug/L		TPH-Diesel Range
	Total Suspended solids	mg/L		MBAS	mg/L		Fe- Iron 1045	ug/L		
				Oil and Grease	mg/L		Hg- Mercury 71900	ug/L	X	Volatile Organics (VOA bottle)
	pH	units		Silica	mg/L		K-Potassium 46555	mg/L		
	Alkalinity to pH 4.5	mg/L		Boron			Mg- Magnesium 927	mg/L		TPH-Gasoline Range
	Alkalinity to pH 8.3	mg/L		Formaldehyde	mg/L		Mn-Manganese 1055	ug/L		TPH-BTEX Gasoline Range
	Carbonate	mg/L		NH3 as N 610	mg/L		Na- Sodium 929	mg/L		
	Bicarbonate	mg/L		TKN as N 625	mg/L		Ni-Nickel	ug/L		
	Carbon dioxide	mg/L		NO2 +NO3 as n 630	mg/L		Pb-Lead 46564	ug/L		
	Chloride	mg/L		P: Total as P 665	mg/L		Se-Selenium	ug/L		
	Chromium: Hex 1032	ug/L		PO4	mg/L		Zn-Zinc 46567	ug/L		
	Color: True 80	c.u.		Nitrate (NO_3 as N) 620	mg/L					
	Cyanide 720	mg/L		Nitrite (NO_2 as N) 615	mg/L					

COMMENTS :

RECEIVED
MAY 26 2006
WASHINGTON REGIONAL OFFICE
DWQ

AB04272

AB04272

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

Location code APSWWAYNE20050259

County: WAYNE

Quad No_____ Serial No._____

Lat._____ Long._____

SAMPLE TYPE	SAMPLE PRIORITY
☑ Water	☑ Routine
☐ Soil	☐ Emergency
☐ Other	
☐ Chain of Custody	

TRIP BLANK

Lab Number 6G0876

Date Received 5-17-06 Time: 9:00

Rec'd By: DS From: Bus, Courier, Hand Del.,

Other:_____

Data Entry By:_____ Ck:_____

Date Reported:_____

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO,
WSRO, Kinston FO, Fed. Trust, Central Off., Other:_____

Shipped by: Bus, Courier, Hand Del., Other:_____

Collector(s): C. STONE Date 5-16-06 Time 10:15AM

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other:_____ (circle one)

Owner DEER PARK BOTTLED H2O

Location or Site_____

Description of sampling point_____

Sampling Method_____ (Pump, bailer, etc.) Sample Interval_____

Remarks_____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400_____ Spec. Cond. 94_____ at 25°C

Temp. 10_____ °C Odor_____

Appearance_____

Field Analysis By:_____

LABORATORY ANALYSES

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/L
	Turbidity 76	NTU
	Residue, Suspended 530	mg/L
	pH 403	units
	Alkalinity to pH 4.5 410	mg/L
	Alkalinity to pH 8.3 415	mg/L
	Carbonate 445	mg/L
	Bicarbonate 440	mg/L
	Carbon dioxide 405	mg/L
	Chloride 940	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	CU
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: Total 900	mg/L
	Hardness (non-carb) 902	mg/L
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm
	Sulfate 945	mg/L
	Sulfide 745	mg/L
	Oil and Grease	mg/L
	NH_3 as N 610	mg/L
	TKN as N 625	mg/L
	$NO_2 + NO_3$ as N 630	mg/L
	P: Total as P 665	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46559	ug/L
	Cu-Copper 46562	ug/L
	Fe-Iron 46563	ug/L
	Hg-Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg-Magnesium 46554	mg/L
	Mn-Manganese 46565	ug/L
	Na-Sodium 46556	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	PCBs
	Semivolatile Organics
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

LAB USE ONLY
Temperature on arrival (°C): 0.4

Lab Comments_____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

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ENR/DWQ LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. AB04272

REPORTED BY AT AT
CHECKED BY VA
REVIEWED BY VA

SUPERVISOR REK
DATE 5/19/06

ENTERED BY
DATE

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L	CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	1.0	U
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.50	U	95-49-8	2-Chlorotoluene	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
594-20-7	2,2-Dichloropropane	0.25	U	96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.50	U
67-66-3	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.50	U
74-97-5	Bromochloromethane	0.25	U	87-61-6	1,2,3-Trichlorobenzene	1.0	U
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	U
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	U
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	U
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	U
74-95-3	Dibromomethane	1.0	U	98-82-8	Isopropylbenzene	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	103-65-1	n-Propylbenzene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	U
127-18-4	Tetrachloroethene	0.25	U	95-63-6	1,2,4-Trimethylbenzene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	U
124-48-1	Dibromochloromethane	0.25	U	99-87-6	p-isopropyltoluene	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U	104-51-8	n-Butylbenzene	0.25	U
108-90-7	Chlorobenzene	0.25	U	91-20-3	Naphthalene	0.50	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.20	X

PQL Practical Quantitation Limit- Subject to change due to instrument sensitivity
N- Tentatively Identified, not confirmed
J- Estimated Value
U- Samples analyzed for this compound but not detected
X- Sample not analyzed for this compound
N3- Estimated concentration is <PQL and >MDL
P Elevated PQL due to matrix interference and/or sample dilution

Other Volatile Organics Detected (up to 10 highest peaks)

Result ug/L

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/MS.

COMMENTS:

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MAY 26 2006
WASHINGTON REGIONAL OFFICE
DWQ

NC Division of Water Quality Laboratory Section Results

Loc. Descr.:	**DEER PARK BOTTLED WATER**		
Location ID:	**WAROAPTB**	Sample ID:	**AB04272**
County:	**WAYNE**	PO Number #	**6G0876**
River Basin		VisitID	
Report To	**WAROAP**	Date Received:	**05/17/2006**
Region:	**WARO**	Time Received:	**09:00**
Collector:	**C STONE**	Labworks LoginID	**MMA**
Sample Matrix:	**GROUNDWATER**	Date Reported:	05/24/2006
Loc. Type:	**TRIP BLANK**		
Sample Depth			
Collect Date:	**05/16/2006**		
Collect Time::	**10:15**		

RECEIVED
MAY 26 2006
WASHINGTON REGIONAL OFFICE
DWQ

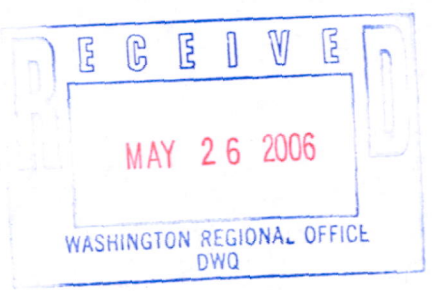
QC 5/25/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		0.4		°C	JGOODWIN
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING

NC Division of Water Quality Laboratory Section Results

Loc. Descr.:	**DEER PARK BOTTLED WATER**		
Location ID:	**WAROAPTB**	Sample ID:	**AB04272**
County:	**WAYNE**	PO Number #	**6G0876**
River Basin		VisitID	
Report To	**WAROAP**		
Region:	**WARO**	Date Received:	**05/17/2006**
Collector:	**C STONE**	Time Received:	**09:00**
Sample Matrix:	**GROUNDWATER**	Labworks LoginID	**MMA**
Loc. Type:	**TRIP BLANK**	Date Reported:	05/24/2006
Sample Depth			
Collect Date:	**05/16/2006**		
Collect Time::	**10:15**		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
VOL					
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
ert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING



AB04271

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

Location code AP5WWAYNE20050429

County: WAYNE

Quad No_____ Serial No._____

Lat._____ Long._____

SAMPLE TYPE: ☑ Water ☐ Soil ☐ Other ☐ Chain of Custody

SAMPLE PRIORITY: ☑ Routine ☐ Emergency

103-1

Lab Number GG0875

Date Received 5/17/06 Time 9:00

Rec'd By: DS From: Bus, Courier, Hand Del.,

Other:_____

Data Entry By:_____ Ck:_____

Date Reported:_____

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:_____

Shipped by: Bus, Courier, Hand Del., Other:_____ Purpose:

Collector(s): C. STONE Date 5-16-06 Time 10:05AM Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other:_____ (circle one)

Owner JOHNNIE PERRY

Location or Site 4172-A US HWY 117 ALTERNATE SOUTH

Description of sampling point OUTSIDE SPIGOT (FRONT OF HOUSE)

Sampling Method GRAB (Pump, bailer, etc.) Sample Interval AFTER 10 min PUMP TIME

Remarks_____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400 5.5 Spec. Cond.94_____ at 25°C

Temp.10 20°C °C Odor_____

Appearance CLEAR

Field Analysis By: C. STONE

LABORATORY ANALYSES

	BOD 310	mg/L		Diss. Solids 70300	mg/L	X	Ag-Silver 46566	ug/L		Organochlorine Pesticides
	COD High 340	mg/L		Fluoride 951	mg/L	X	Al-Aluminum 46557	ug/L		Organophosphorus Pesticides
	COD Low 335	mg/L		Hardness: Total 900	mg/L	X	As-Arsenic 46551	ug/L		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/L	X	Ba-Barium 46558	ug/L		Acid Herbicides
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l	X	Ca-Calcium 46552	mg/L		PCBs
	TOC 680	mg/L		Specific Cond. 95	uMhos/cm	X	Cd-Cadmium 46559	ug/L		
	Turbidity 76	NTU		Sulfate 945	mg/L	X	Cr-Chromium 46559	ug/L		
	Residue, Suspended 530	mg/L		Sulfide 745	mg/L	X	Cu-Copper 46562	ug/L		
						X	Fe-Iron 46563	ug/L		Semivolatile Organics
				Oil and Grease	mg/L	X	Hg-Mercury 71900	ug/L		TPH-Diesel Range
	pH 403	units				X	K-Potassium 46555	mg/L		
	Alkalinity to pH 4.5 410	mg/L				X	Mg-Magnesium 46554	mg/L		
	Alkalinity to pH 8.3 415	mg/L				X	Mn-Manganese 46565	ug/L	X	Volatile Organics (VOA bottle)
	Carbonate 445	mg/L		NH_3 as N 610	mg/L	X	Na-Sodium 46556	mg/L		TPH-Gasoline Range
	Bicarbonate 440	mg/L		TKN as N 625	mg/L	X	Ni-Nickel	ug/L		TPH-BTEX Gasoline Range
	Carbon dioxide 405	mg/L		$NO_2 + NO_3$ as N 630	mg/L	X	Pb-Lead 46564	ug/L		
	Chloride 940	mg/L		P: Total as P 665	mg/L	X	Se-Selenium	ug/L		
	Chromium: Hex 1032	ug/L		Nitrate (NO_3 as N) 620	mg/L	X	Zn-Zinc 46567	ug/L		
	Color: True 80	CU		Nitrite (NO_2 as N) 615	mg/L					
	Cyanide 720	mg/L								

LAB USE ONLY
Temperature on arrival (°C): 0.4

Lab Comments_____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

RECEIVED
JUN 19 2006
WASHINGTON REGIONAL OFFICE
DWQ

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

Location code APSWWAYNE20050259

County: WAYNE

Quad No_____ Serial No._____

Lat._____ Long._____

SAMPLE TYPE	SAMPLE PRIORITY
☑ Water	☑ Routine
☐ Soil	☐ Emergency
☐ Other	
☐ Chain of Custody	

TRIPBLANK

Lab Number_____

Date Received_____ Time:_____

Rec'd By: From:Bus, Courier, Hand Del.,

Other:_____

Data Entry By:_____ Ck:_____

Date Reported:_____

Report To: ARO, FRO, MRO, RRO, (WaRO) WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:_____

Shipped by: Bus, (Courier) Hand Del., Other:_____

Collector(s): C STONE Date 5-16-06 Time 10:15AM

Purpose: Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other:_____ (circle one)

Owner DEER PARK BOTTLED H2O

Location or Site_____

Description of sampling point_____

Sampling Method_____ (Pump, bailer, etc.) Sample Interval_____

Remarks_____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400_____ Spec. Cond.94_____ at 25°C

Temp.10_____ °C Odor_____

Appearance_____

Field Analysis By:_____

LABORATORY ANALYSES

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/L
	Turbidity 76	NTU
	Residue, Suspended 530	mg/L
	pH 403	units
	Alkalinity to pH 4.5 410	mg/L
	Alkalinity to pH 8.3 415	mg/L
	Carbonate 445	mg/L
	Bicarbonate 440	mg/L
	Carbon dioxide 405	mg/L
	Chloride 940	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	CU
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: Total 900	mg/L
	Hardness (non-carb) 902	mg/L
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm
	Sulfate 945	mg/L
	Sulfide 745	mg/L
	Oil and Grease	mg/L
	NH_3 as N 610	mg/L
	TKN as N 625	mg/L
	$NO_2 + NO_3$ as N 630	mg/L
	P: Total as P 665	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46559	ug/L
	Cu-Copper 46562	ug/L
	Fe-Iron 46563	ug/L
	Hg-Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg-Magnesium 46554	mg/L
	Mn-Manganese 46565	ug/L
	Na-Sodium 46556	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	PCBs
	Semivolatile Organics
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

LAB USE ONLY
Temperature on arrival (°C):

Lab Comments_____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

Location code AP5WWAYNE20050429

County: WAYNE

Quad No_____ Serial No._____

Lat._____ Long._____

SAMPLE TYPE: ☑ Water ☐ Soil ☐ Other ☐ Chain of Custody

SAMPLE PRIORITY: ☑ Routine ☐ Emergency

103-1

Lab Number_____

Date Received_____ Time:_____

Rec'd By: From:Bus, Courier, Hand Del.,

Other:_____

Data Entry By:_____ Ck:_____

Date Reported:_____

Report To: ARO, FRO, MRO, RRO, (WaRO), WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:_____

Shipped by: Bus, (Courier), Hand Del., Other:_____

Purpose:

Collector(s): C. STONE Date 5-16-06 Time 10:05AM Baseline, (Complaint), Compliance, LUST, Pesticide Study, Federal Trust, Other:_____ (circle one)

Owner JOHNNIE PERRY

Location or Site 4172-A US HWY 117 ALTERNATE SOLEH

Description of sampling point OUTSIDE SPIGOT (FRONT OF HOUSE)

Sample Interval AFTER 10 min Pump Time

Sampling Method GRAB (Pump, bailer, etc.)

Remarks_____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400 5.5 Spec. Cond.94_____ at 25°C

Temp.10 20°C °C Odor_____

Appearance CLEAR

Field Analysis By: C. STONE

LABORATORY ANALYSES

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/L
	Turbidity 78	NTU
	Residue, Suspended 530	mg/L
	pH 403	units
	Alkalinity to pH 4.5 410	mg/L
	Alkalinity to pH 8.3 415	mg/L
	Carbonate 445	mg/L
	Bicarbonate 440	mg/L
	Carbon dioxide 405	mg/L
	Chloride 940	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	CU
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: Total 900	mg/L
	Hardness (non-carb) 902	mg/L
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm
	Sulfate 945	mg/L
	Sulfide 745	mg/L
	Oil and Grease	mg/L
	NH_3 as N 610	mg/L
	TKN as N 625	mg/L
	$NO_2 + NO_3$ as N 630	mg/L
	P: Total as P 665	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

X	Ag-Silver 46566	ug/L
X	Al-Aluminum 46557	ug/L
X	As-Arsenic 46551	ug/L
X	Ba-Barium 46558	ug/L
X	Ca-Calcium 46552	mg/L
X	Cd-Cadmium 46559	ug/L
X	Cr-Chromium 46559	ug/L
X	Cu-Copper 46562	ug/L
X	Fe-Iron 46563	ug/L
X	Hg-Mercury 71900	ug/L
X	K-Potassium 46555	mg/L
X	Mg-Magnesium 46554	mg/L
X	Mn-Manganese 46565	ug/L
X	Na-Sodium 46556	mg/L
X	Ni-Nickel	ug/L
X	Pb-Lead 46564	ug/L
X	Se-Selenium	ug/L
X	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	PCBs
	Semivolatile Organics
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

LAB USE ONLY
Temperature on arrival (°C):

Lab Comments_____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

prevent [illegible] (infill) gw standards 2L Fis [illegible]

REQUEST FOR INVESTIGATION (RFI)

Check List for Request for Investigation Submission:
Verify that the RFI package contains the following applicable items. Incomplete submittals will cause delays in processing of RFI package.

Forms:

- □ Transmittal memo from/through Regional Supervisor to Central Office requesting the investigation
- □ Completed Request for Investigation form and checklist
- □ Pollution Incident Reporting Form (PIRF)
- □ Site Health and Safety Planning Form
- □ Signed Land Use Agreements (LUA) for properties to be included in the investigation
- □ Documentation of RFI Planning Meeting (brief summary, time, date, personnel present, etc.)

Division of Responsibility:

Develop Scope of Work	□ Region	□ Central
Secure Land Use Agreements	□ Region	□ Central
Coordinate with Driller	□ Region	□ Central
Perform Preliminary Site Visits	□ Region	□ Central
GPS and/or Survey	□ Region	□ Central
Evaluate Data	□ Region	□ Central
Perform Draft Project Report	□ Region	□ Central
Review Project Report	□ Region	□ Central
Finalize Project Report	□ Region	□ Central

Maps*:

- □ Local site/area map showing affected properties with owner's name(s), location of existing well(s), and proposed drilling locations (county tax map or an aerial photo are preferred, although a neatly hand drawn map is acceptable).
- □ Include written directions to site from a nearby well known landmark or primary road intersection.
- □ Regional map showing directions to site from main highway or other major artery (please use one of the following: USGS 7.5' quad, DOT county road map, NC Atlas & Gazetteer 1:150,000 scale map)
- □ Directions, phone number, and location map for the nearest hospital

* Combine maps where possible and appropriate

Supporting Information :

- □ Laboratory report(s) of previous sampling and testing
- □ Well construction records of existing monitoring wells
- □ Well construction data for affected private supply wells (type, installation date, total depth, casing depth, screened interval(s), well logs, etc.)
- □ References to existing investigations, reports, etc,
- □ Other supporting information available in the Regional Office but not included in this RFI package (please list): _____

Signature of person verifying review and completeness of attached RFI package:

Signature_____Date_____

MEMORANDUM

TO: Inactive hazardous Waste Branch
Raleigh

FROM: Rose Ballance, UST Section
Washington RO

RE: Project Transfer
Perry/Young Property
Dudley, Wayne County
Non-UST Incident 87189

DATE: February 19, 2008

Attached is our file for the above project. I understand that Mike Cunningham from the DWQ has forwarded a draft report to you some time ago. The draft report documents a groundwater assessment project conducted by DWQ at the above site during May of 2006. The incident is being transferred to you because the only contaminant found during the investigation is a chlorinated solvent (PCE).

If you have questions, please give me a all at 252-948-3949

Subject: Perry/Young Property Incident #87189
From: John Walch <John.Walch@ncmail.net>
Date: Mon, 25 Feb 2008 16:04:39 -0500
To: Rose Ballance <Rose.Ballance@ncmail.net>

Rose-

I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?

Thanks
John Walch

--
John W. Walch
Eastern Unit Supervisor
NC Division of Waste Management
Superfund Section
(919) 508-8485
email: John.Walch@ncmail.net

Subject: Re: Perry/Young Property Incident #87189
From: Rose Ballance <Rose.Ballance@ncmail.net>
Date: Mon, 25 Feb 2008 16:11:01 -0500
To: John Walch <John.Walch@ncmail.net>

John,

I have never received a copy of the draft report. Mike Cunningham would hopefully be able to help you.

Rose

John Walch wrote:

> Rose-
>
> I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?
>
> Thanks
> John Walch

TRIP NOTIFICATION AND AUTHORIZATION FORM

Program:

- ☐ CERCLA Site Assessment
- ☑ State
- ☐ NPL/DOD
- ☐ Brownfields
- ☐ MGP
- ☐ Dry Cleaners

Site Name:	Perry/Young Site Investigation
ID Number:	
Street Address:	4172 US 117 South Alternate
City:	Dudley
County:	Wayne

Date(s) of Trip	Trip Canceled:	Trip Rescheduled (Date):
6/16-27/08		

Reason For Trip: _____

(if sampling, check appropriate boxes below)

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☐ Using Augers/Shovels to collect soil
- ☐ Using Little Beaver to collect soil
- ☑ Groundwater (from tap)
- ☐ Groundwater (bailers)
- ☐ Groundwater (pumps)
- ☐ Surface Water
- ☐ Sediment

Project Team Leader	Assistant	Assistant	Assistant
Sean Boyles	Ryan Locklear		

Authorized By: _____

Industrial Hygienist Signature

Office Use Only

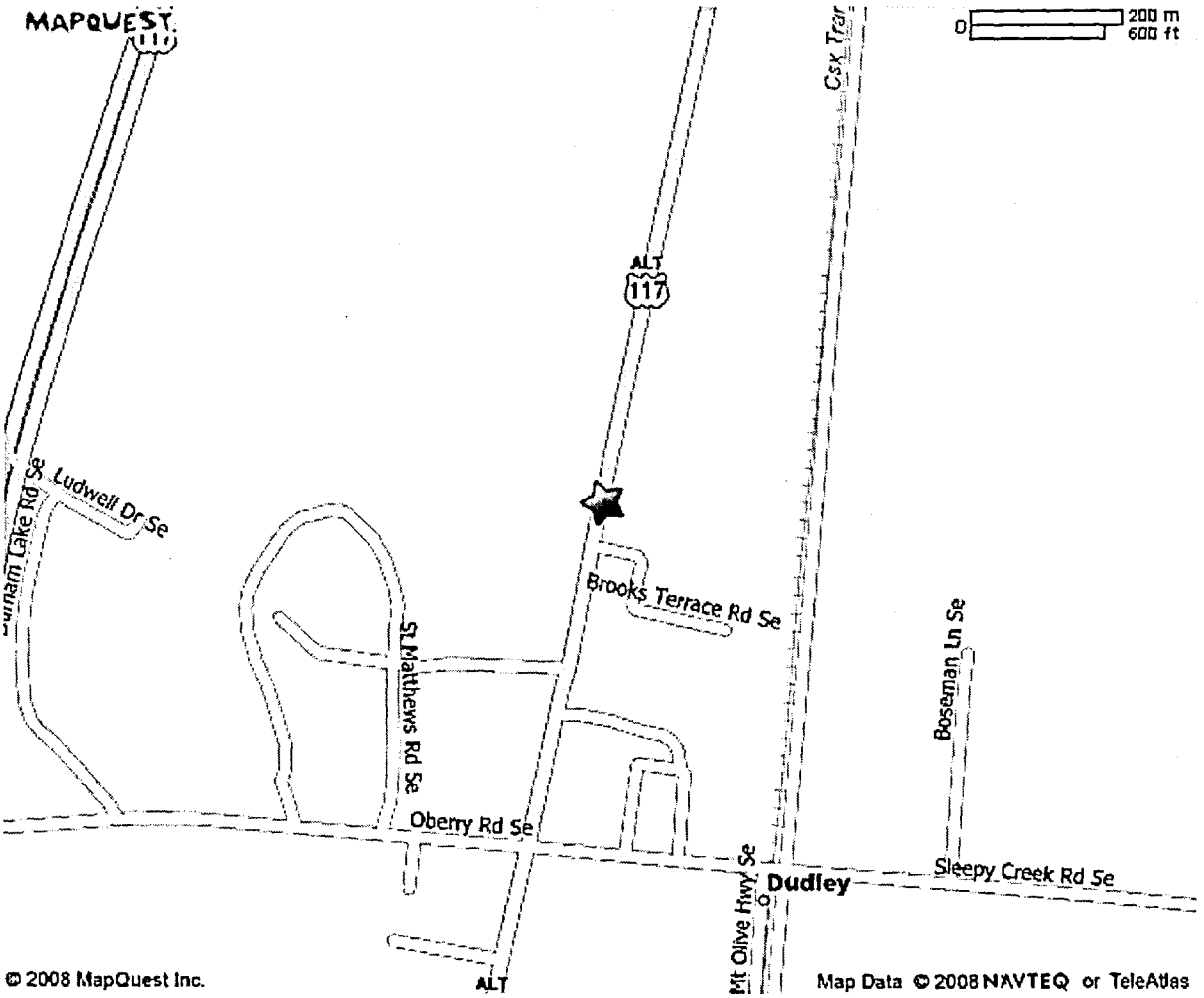
County Health Department Official Contact: _____

Title: _____

Phone Number: (___)_____-_____

Health Department Official Contacted: _____ Back Up Letter Required?: Yes _ No _

Notes: _____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Sleepy Creek Rd Se
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Report to: **DIVISION OF WASTE MANAGEMENT – SUPERFUND SECTION** **Page** **of**

INACTIVE SITES BRANCH

CHAIN OF CUSTODY RECORD

NC DENR/DWQ LABORATORY (check one): [☒] CENTRAL [☐] ARO [☐] WaRO

For Investigation of: Perry Residence **Incident No.** 87538

Sample collector (print name) and UST-54 forms completed by: Sean Bayles Sample collector's signature: PSB/h

Field storage conditions and location (when applicable):

Lab Use Only LAB NO.	SAMPLE ID	QUAD. NO.	LOCATION	DATE SAMPLED	TIME SAMPLED	NUMBER OF CONTAINERS
AB 32123	DI		800627200808 30	6/27/08	8:30	4
AB 32124	172A		800627200809 32	6/27/08	9:32	4

	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	7/1/08	5:15	Heather Pahl	7-2-08	0810
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time

Method of Shipment (check one): State Courier ☒ Hand-delivered ☐ Federal Express ☐ UPS ☐ Other:

Security Type and Conditions:	Sealed by:	Broken by:
	Sean Bayles	Heather Pahl

INTRALABORATORY CHAIN OF CUSTODY - Lab Use Only

LAB NUMBERS FROM	LAB NUMBERS THROUGH	NUMBER BOTTLES	ANALYSES REQUESTED	RELINQUISHED BY:	RECEIVED BY:	DATE	TIME
AB 32123	AB 32124	8	VOA	Heather Pahl	[illegible]	7/2/08	09:23am

RECEIVED JUL 07 2008 DENR – FAYETTEVILLE REGIONAL OFFICE

DIVISION OF WATER QUALITY
Aquifer Protection Section
July 3, 2006

MEMORANDUM:

TO: Ted Bush, Chief Aquifer Protection Section, Central Office

Through: David May, Supervisor Aquifer Protection Section DLM
Washington Regional Office

FROM: Rose Ballance, Hydrogeologist Aquifer Protection Section RB
Washington Regional Office

SUBJECT: Request for Investigation - Final
Perry/Young Property
4172 US Hwy 117 Alternate South, Dudley, Wayne County
Site Ranking: 75/B
Incident Number ~~87189~~ 8753P ?

Attached is the final request for a subsurface investigation to identify the source of MtBE contamination impacting a residential supply well at the above location (Perry Residence) and assist with determining the responsible party.

MtBE (at a concentration of 0.8 µg/L) was detected in a water sample collected from the well in late August 2005 by Wayne County Environmental Health Department staff. MtBE was again detected, at the same concentration, in a water sample collected by WaRO staff on September 27, 2005 and in a sample collected on April 6, 2006 by the NCDHHS (data provided by Mr. Perry). APS resampled the well on May 11, 2006 for VOCs and metals. No VOCs were detected above the laboratory reporting limits. Metals concentrations were below the 2L standards. Laboratory reports for the two most recent sampling events are attached. The results have been sent to Ken Rudo, toxicologist, for evaluation. A copy of the submittal memo is attached.

The Perry Residence is almost completely surrounded by a vehicle salvage facility. The facility (Young's Auto Center & Salvage) occupies about 90 acres of land and is considered a potential source of the contamination. Of particular concern is a parts cleaning area, located adjacent to Mr. Perry's property. The area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. Alternatively, contamination may have occurred in the past when, according to salvage yard employees, Mr. Perry engaged in lawn mower repairs on his property. A site visit was conducted by APS personnel (Mike Cunningham, Carrie Stone, and Rose Ballance) on May 11, 2006.

To identify the source of contamination and responsible party, APS is proposing five Geoprobe borings. The investigation will be confined to Mr. Perry's property as we have not received an access agreement from Young's Auto Center. A planning meeting was conducted between Mike Cunningham and Rose Ballance on June 22, 2006. Although concentrations have been below the 2L standard, further investigation is requested to confirm whether a much larger problem exists.

If you have any questions, please call me at 252-948-3949.

Attachments

REQUEST FOR INVESTIGATION (RFI)

[1] Incident/Project name: PERRY / YOUNG PROPERTY	[2] Incident Number: 87538
[3] Region/County: WASHINGTON/WAYNE	[4] Site Ranking: 75/B
[5] Address/Location: 4172 South US 117 Alternate Dudley, NC 28333	[6] USGS 7.5' Quadrangle Name and Site Latitude & Longitude: Goldsboro SW QUADRANGLE 35 16 46.8 N, 78 02 28.7 W
[7] Regional Office Contact: Rose Ballance	[8] Date submitted: July 3, 2006

[9] RFI Planning Meeting(s)*:
(1) Site visit conducted on May 11, 2006.
(2) Conference call with Mike Cunningham on June 22, 2006.

[10] What event(s) or groundwater issue(s) necessitated this Request for Investigation?

In late August 2005 Wayne County Environmental Health Department staff sampled a water supply well at the Perry residence for volatile organics. The samples had 0.8 ppb MtBE. MtBE was detected at the same concentration in a follow-up sample collected by WaRO staff on September 27, 2005. The Perry residence is almost completely surrounded by land owned by Ricky Young who uses the property for an Auto Center and Salvage yard. An investigation is requested to identify the source of the contamination and the responsible party. Although the detected presence of MtBE is below the 2L groundwater standard, identification of the source area is warranted to confirm whether a much larger problem exists.

The well was resampled on April 6, 2005 by the NC DHHS (data provided by Mr. Perry) and on May 11, 2006 by APS. Both samples were analyzed for VOCs. The sample collected by APS was also analyzed for metals . The sample collected by DHHS had MtBE at a concentration of 0.8 ppb. VOCs were not detected in the sample collected by APS. Metals concentrations were below the 2L standards. Analytical results for the two most recent sampling episodes are attached. Data sheets have been sent to the toxicologist (Ken Rudo) for evaluation. A copy of the submittal memo is attached.

[11] How will implementation of the proposed Investigation help identify the Responsible Party or resolve the issue(s) listed in #10 above?

Implementation of the proposed investigation should provide information as to the source of the contamination in Mr. Perry's well and to determine if contaminant concentrations are higher in other areas. Mr. Perry has noticed surface run-off onto his property from a parts cleaning area that borders his property. The parts cleaning area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. According to salvage yard employees, Mr. Perry has in the past engaged in lawn mower repair on his property.

[12] Attach a Site Location Map (combine with other map(s) if appropriate). *Attached.*

REQUEST FOR INVESTIGATION (RFI)

[13] DRILLING INFORMATION	
[13a] Proposed drilling method: Geoprobe	[13b] Estimated depth to bedrock or first confining unit: ~72 ′
[13c] Proposed decontamination location: Onsite. May need to be relocated, depending from one inestigation area to the next.	[13d] Estimated depth to groundwater: ~?′
[13e] Proposed disposal facility for contaminated water and soils: **None proposed**	[13f] Source of clean drilling/decon water: Sheriff's office at 126 Oberry Road, Dudley. Phone: 919-705-6541. Call ahead of time. There is a spigot at the facility; need to bring hose. If necessary, call Kevin Whitley with the Wayne County Health Department at 919-222-7946.

[13g] Proposed Well Number	[13h] Proposed Depth	[13i] Proposed Diameter	[13j] Construction and Completion
Five; proposed locations are shown on the attached map.	To groundwater (depth to water unknown)	NA	N/A. Use screen sampler. Backfill with grout.

[13k] Attach a map showing proposed drilling locations: (combine with other maps where appropriate)
attached

[14] PROPERTY OWNERS			
[14a] Name:	[14b] Address:	[14c] Phone Number:	[14d] LUA?
Johnnie Perry	4172-A US Hwy 117 South Alternate	919-734-8455	Yes
Ricky Young	4172 US Hwy 117 South Alternate	919-631-7979	No

[14e] Attach a map identifying property owners. *(combine with other maps where appropriate)*; see map attached to preliminary request.

REQUEST FOR INVESTIGATION

[15] HEALTH AND SAFETY INFORMATION (please provide only site-specific information)

[15a] Chemical exposure potential (on-site chemical storage, drums, pesticides, fuel tanks, etc.):

None observed.

[15b] Type of Contamination Expected (list substances or compounds, if known):

Petroleum constituents, particularly MtBE (detected in three of four samples collected from the supply well at a concentration of 0.8 ppb). MtBE was not detected in the fourth (and last) sample, collected on May 11, 2006.

[15c] Site Specific Issues or Concerns (access, noise, general hazards, utilities, traffic, etc.):

This is a private residence, and there are no access and traffic concerns, other than coordinating with the property owner. Overhead power line is likely present. General hazards include slips, trips, falls, heat exposure. The driller should contact the utility for a mark-out of onsite utilities.

[15d] Biological exposure potential (on-site poisonous plants and animals, other wild animals, etc.):
Primary exposure hazard: ticks, mosquitoes. Possibly snakes, spiders, and poisonous plants.

[15e] Required safety equipment: Modified Level D

☒ Hard hat	☒ Gloves nitrile
☒ Steel toe boots	☒ PID/OVA
☒ Hearing Protection	☐ Other (specify)

[15f] Physical/electrical/radiological exposure potential (on-site power lines, open ditches or trenches, water bodies, heavy traffic, farm machinery, temperature extremes, etc.):
Onsite power line is likely present. No open ditches, trenches, or water bodies are the area to be investigated. No heavy traffic or farm machinery. High temperatures and high humidity are expected.

[15g] Name and address of nearest hospital:

Wayne Memorial Hospital
2700 Wayne Memorial Drive
Goldsboro, NC 27534

Map attached

[15h] Emergency facility phone number: emergencies 911, non-emergencies (919) 736-1110
911 service available: yes

[15i] Attach a map indicating location and route to nearest hospital: *attached*

REQUEST FOR INVESTIGATION

[15] Health and Safety Plan Site Meeting Sign-Off Sheet	
Signature	**Date**

REQUEST FOR INVESTIGATION

[16] ADDITIONAL INFORMATION (Site description, site specific issues, narrative, etc.)

REQUEST FOR INVESTIGATION (RFI)

Check List for Request for Investigation Submission:
Verify that the RFI package contains the following applicable items. Incomplete submittals will cause delays in processing of RFI package.

Forms:

- ☒ Transmittal memo from/through Regional Supervisor to Central Office requesting the investigation
- ☒ Completed Request for Investigation form and checklist
- ☒ Pollution Incident Reporting Form (PIRF)
- ☒ Site Health and Safety Planning Form
- ☐ Signed Land Use Agreements (LUA) for properties to be included in the investigation *(attached to draft RFI).*
- ☐ Documentation of RFI Planning Meeting (brief summary, time, date, personnel present, etc.). *Discussed in final RFI form.*

Division of Responsibility:

Develop Scope of Work	☐ Region	☐ Central
Secure Land Use Agreements	☐ Region	☐ Central
Coordinate with Driller	☐ Region	☐ Central
Perform Preliminary Site Visits	☐ Region	☐ Central
GPS and/or Survey	☐ Region	☐ Central
Evaluate Data	☐ Region	☐ Central
Perform Draft Project Report	☐ Region	☐ Central
Review Project Report	☐ Region	☐ Central
Finalize Project Report	☐ Region	☐ Central

Maps*:

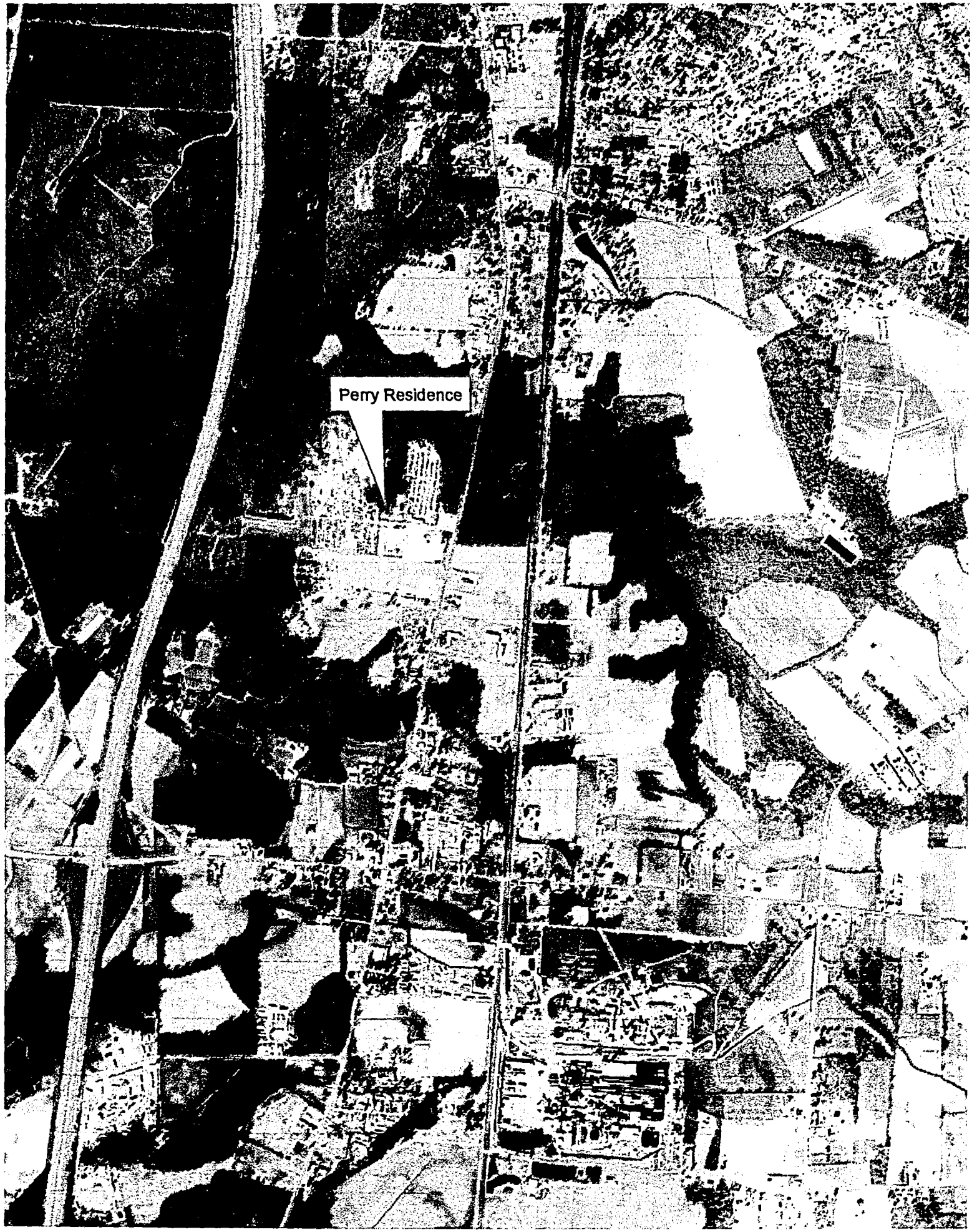
- ☒ Local site/area map showing affected properties with owner's name(s), location of existing well(s), and proposed drilling locations (county tax map or an aerial photo are preferred, although a neatly hand drawn map is acceptable).
- ☐ Include written directions to site from a nearby well known landmark or primary road intersection.
- ☒ Regional map showing directions to site from main highway or other major artery (please use one of the following: USGS 7.5' quad, DOT county road map, NC Atlas & Gazetteer 1:150,000 scale map)
- ☒ Directions, phone number, and location map for the nearest hospital
- * Combine maps where possible and appropriate

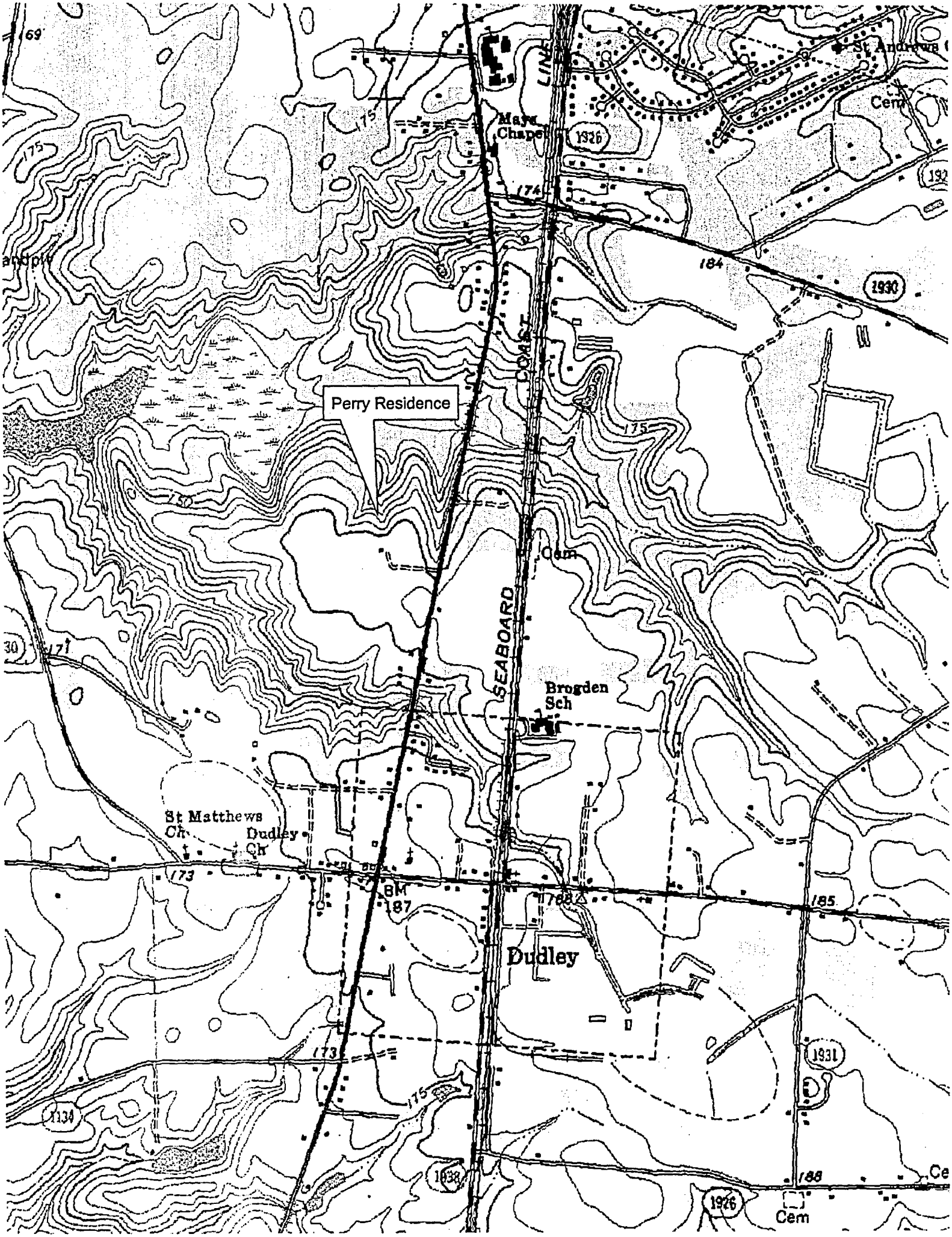
Supporting Information :

- ☒ Laboratory report(s) of previous sampling and testing
- ☐ Well construction records of existing monitoring wells
- ☐ Well construction data for affected private supply wells (type, installation date, total depth, casing depth, screened interval(s), well logs, etc.)
- ☐ References to existing investigations, reports, etc,
- ☐ Other supporting information available in the Regional Office but not included in this RFI package (please list): _____

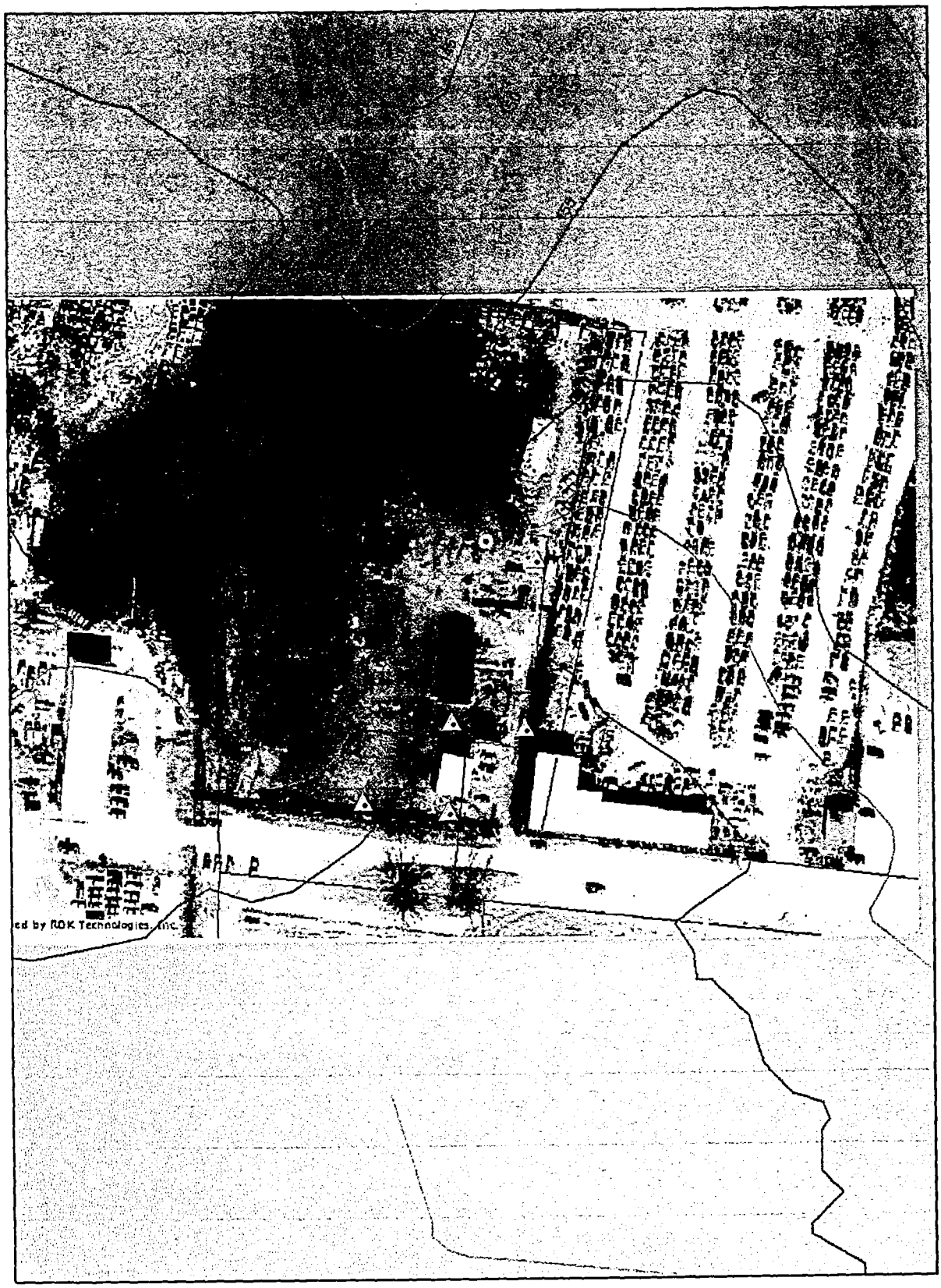
Signature of person verifying review and completeness of attached RFI package:

Signature R Marie Dillon Date 7-3-2006


Perry Residence


Perry Residence
Mays Chapel
1936
St Andrews
Cem
SEABOARD COAST LINE
1930
Cem
Brogden Sch
St Matthews Ch
Dudley Ch
BM 187
Dudley
1931
1934
1938
1926
Cem
69
175
174
184
171
173
185
188

Perry/Young Site



NC Division of Water Quality Laboratory Section Results

Loc. Descr.:	**JOHNNIE PERRY**		
Location ID:	APSWWAYNE200502429	Sample ID:	AB04271
County:	WAYNE	PO Number #	6G0875
River Basin		VisitID	
Report To	WAROAP		
Region:	WaRO	Date Received:	05/17/2006
Collector:	C STONE	Time Received:	09:00
Sample Matrix:	GROUNDWATER	Labworks LoginID	MMA
Loc. Type:	WATER SUPPLY	Date Reported:	06/14/2006
Sample Depth			
Collect Date:	05/16/2006		
Collect Time::	10:05		

RECEIVED
JUN 19 2006
WASHINGTON REGIONAL OFFICE
DWQ

QC 6/15/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		0.4		°C	JGOODWIN
MET					
Ag by ICPMS	5.0	5.0	U	ug/L	ESTAFFORD
Al by ICP	50	1000		ug/L	ESTAFFORD
As by ICPMS	5.0	5.0	U	ug/L	ESTAFFORD
Ba by ICP	10	280		ug/L	ESTAFFORD
Ca by ICP	0.10	1.3		mg/L	ESTAFFORD
Cd by ICPMS	2.0	2.0	U	ug/L	ESTAFFORD
Cr by ICPMS	25	25	U	ug/L	ESTAFFORD
Cu by ICPMS	2.0	100		ug/L	ESTAFFORD
Fe by ICP	50	290		ug/L	ESTAFFORD
Hg 245.1	0.2	0.77		ug/L	ESTAFFORD
K by ICP	0.10	2.5		mg/L	ESTAFFORD
Mg by ICP	0.10	3.0		mg/L	ESTAFFORD
Mn by ICPMS	10	55		ug/L	ESTAFFORD
Na by ICP	0.10	3.5		mg/L	ESTAFFORD
Ni by ICPMS	10	10	U	ug/L	ESTAFFORD
Pb by ICPMS	10	10	U	ug/L	ESTAFFORD
Se by ICPMS	5.0	5.0	U	ug/L	ESTAFFORD
Zn by ICP	10	29		ug/L	ESTAFFORD
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING

NC Division of Water Quality Laboratory Section Results

Loc. Descr.:	**JOHNNIE PERRY**		
Location ID:	APSWWAYNE200502429	Sample ID:	AB04271
County:	WAYNE	PO Number #	6G0875
River Basin		VisitID	
Report To	WAROAP	Date Received:	05/17/2006
Region:	WaRO	Time Received:	09:00
Collector:	C STONE	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	06/14/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	05/16/2006		
Collect Time::	10:05		

RECEIVED
JUN 19 2006
WASHINGTON REGIONAL OFFICE
DWQ

Analyte Name	PQL	Result	Qualifier	Units	Approved By
VOL					
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

N.C. Department of Health and Human Services
Division of Public Health
State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington St., Raleigh, NC 27611-8047

PETROLEUM PRODUCTS

Environmental Sciences Analysis Report

Name of Owner, Patient Or Supply: John Perry
Telephone # (919) 738-1144
Address: 4472 US 117 Alt. 28333
County: Wayne
Dudly Zip:

Wayne County Health Department
301 North Herman Street, Box CC
Goldsboro, North Carolina 27530

Report to:
Collected By: Shannon Jennings
Telephone # (919) 731-1174
Telephone # ( )
Address:
Date Collected: 4/6/06
Analysis Desired:

Laboratory Number	Sample #	Sample Description or Remarks	Results In
060630		SEE ATTACHED SHEET(S)	
060631		TRIP BLANK (DATE: 03-30-06) SEE ATTACHED SHEET(S)	

Date Received: APR 07 2006 WC
Date Extracted: 4-13-06
Date Reported: APR 20 2006
Date Analyzed: PT/BC/MS 4-11-06 TO 4-19-06
Reported By: Dale A. Julington

DHHS Form 2364
Laboratory (Rev.06/99)

DIVISION OF HEALTH AND HUMAN SERVICES
STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by
Gas Chromatography/Mass Spectrometry

LABORATORY # 060630

COMPOUND	MDL	µg/L	COMPOUND	MDL	µg/L
Chloromethane	2.0 µg/L	U	1,2-Dichloropropane	0.5 µg/L	U
Vinyl Chloride	2.0 µg/L		Dibromomethane	0.5 µg/L	
Bromomethane	2.0 µg/L		Bromodichloromethane	0.5 µg/L	
Chloroethane	2.0 µg/L		cis-1,3-Dichloropropene	0.5 µg/L	
Trichlorofluoromethane	2.0 µg/L		4-Methyl-2-Pentanone	0.5 µg/L	
1,1-Dichloroethene	0.5 µg/L		Toluene	0.5 µg/L	trace
Acetone	2.0 µg/L		trans-1,3-Dichloropropene	0.5 µg/L	U
Iodomethane	0.5 µg/L		1,1,2-Trichloroethane	0.5 µg/L	
Carbon Disulfide	0.5 µg/L		Tetrachloroethene	0.5 µg/L	
Methylene Chloride	0.5 µg/L		2-Hexanone	0.5 µg/L	
Acrylonitrile	0.5 µg/L		Dibromochloromethane	0.5 µg/L	
trans-1,2-Dichloroethene	0.5 µg/L		Ethylene Dibromide	0.5 µg/L	
Methyl-t-Butyl-Ether	0.5 µg/L	0.8	Chlorobenzene	0.5 µg/L	
1,1-Dichloroethane	0.5 µg/L	U	1,1,1,2-Tetrachloroethane	0.5 µg/L	
Isopropyl Ether	0.5 µg/L		Ethyl Benzene	0.5 µg/L	
cis-1,2-Dichloroethene	0.5 µg/L		Xylenes	0.5 µg/L	
2-Butanone	2.0 µg/L		Styrene	0.5 µg/L	
Tetrahydrofuran	2.0 µg/L		Bromoform	0.5 µg/L	
Chloroform	0.5 µg/L		1,1,2,2-Tetrachloroethane	0.5 µg/L	
1,1,1-Trichloroethane	0.5 µg/L		1,2,3-Trichloropropane	0.5 µg/L	
Carbon Tetrachloride	0.5 µg/L		1,4-Dichlorobenzene	0.5 µg/L	
Benzene	0.5 µg/L		1,2-Dichlorobenzene	0.5 µg/L	
1,2-Dichloroethane	0.5 µg/L		1,2-Dibromo-3-Chloropropane	2.0 µg/L	
Trichloroethene	0.5 µg/L				

trace – detected, but less than MDL MDL=Minimum Detection Limit
C - Possible lab contamination or background
J - Estimated Value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
J/ - Tentative Identification.
D -Sample diluted. MDLs do not apply.

a:\nancy.frm (3/01)

DIVISION OF HEALTH AND HUMAN SERVICES
STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by
Gas Chromatography/Mass Spectrometry

LABORATORY # 060631
TRIP BLANK

COMPOUND	MDL	µg/L	COMPOUND	MDL	µg/L
Chloromethane	2.0 µg/L	U	1,2-Dichloropropane	0.5 µg/L	U
Vinyl Chloride	2.0 µg/L		Dibromomethane	0.5 µg/L	
Bromomethane	2.0 µg/L		Bromodichloromethane	0.5 µg/L	
Chloroethane	2.0 µg/L		cis-1,3-Dichloropropene	0.5 µg/L	
Trichlorofluoromethane	2.0 µg/L		4-Methyl-2-Pentanone	0.5 µg/L	
1,1-Dichloroethene	0.5 µg/L		Toluene	0.5 µg/L	
Acetone	2.0 µg/L		trans-1,3-Dichloropropene	0.5 µg/L	
Iodomethane	0.5 µg/L		1,1,2-Trichloroethane	0.5 µg/L	
Carbon Disulfide	0.5 µg/L		Tetrachloroethene	0.5 µg/L	
Methylene Chloride	0.5 µg/L		2-Hexanone	0.5 µg/L	
Acrylonitrile	0.5 µg/L		Dibromochloromethane	0.5 µg/L	
trans-1,2-Dichloroethene	0.5 µg/L		Ethylene Dibromide	0.5 µg/L	
Methyl-t-Butyl-Ether	0.5 µg/L		Chlorobenzene	0.5 µg/L	
1,1-Dichloroethane	0.5 µg/L		1,1,1,2-Tetrachloroethane	0.5 µg/L	
Isopropyl Ether	0.5 µg/L		Ethyl Benzene	0.5 µg/L	
cis-1,2-Dichloroethene	0.5 µg/L		Xylenes	0.5 µg/L	
2-Butanone	2.0 µg/L		Styrene	0.5 µg/L	
Tetrahydrofuran	2.0 µg/L		Bromoform	0.5 µg/L	
Chloroform	0.5 µg/L		1,1,2,2-Tetrachloroethane	0.5 µg/L	
1,1,1-Trichloroethane	0.5 µg/L		1,2,3-Trichloropropane	0.5 µg/L	
Carbon Tetrachloride	0.5 µg/L		1,4-Dichlorobenzene	0.5 µg/L	
Benzene	0.5 µg/L		1,2-Dichlorobenzene	0.5 µg/L	
1,2-Dichloroethane	0.5 µg/L		1,2-Dibromo-3-Chloropropane	2.0 µg/L	
Trichloroethene	0.5 µg/L				

trace – detected, but less than MDL MDL=Minimum Detection Limit
C - Possible lab contamination or background
J - Estimated Value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
J/ - Tentative Identification.
D -Sample diluted. MDLs do not apply.

TRIP BLANK (DATE: 03-30-06)
060631

a:\nancy.frm (3/01)

DIVISION OF WATER QUALITY
Aquifer Protection Section
June 16, 2006

MEMORANDUM:

TO: Ken Rudo, Toxicologist, Department of Health and Human Services

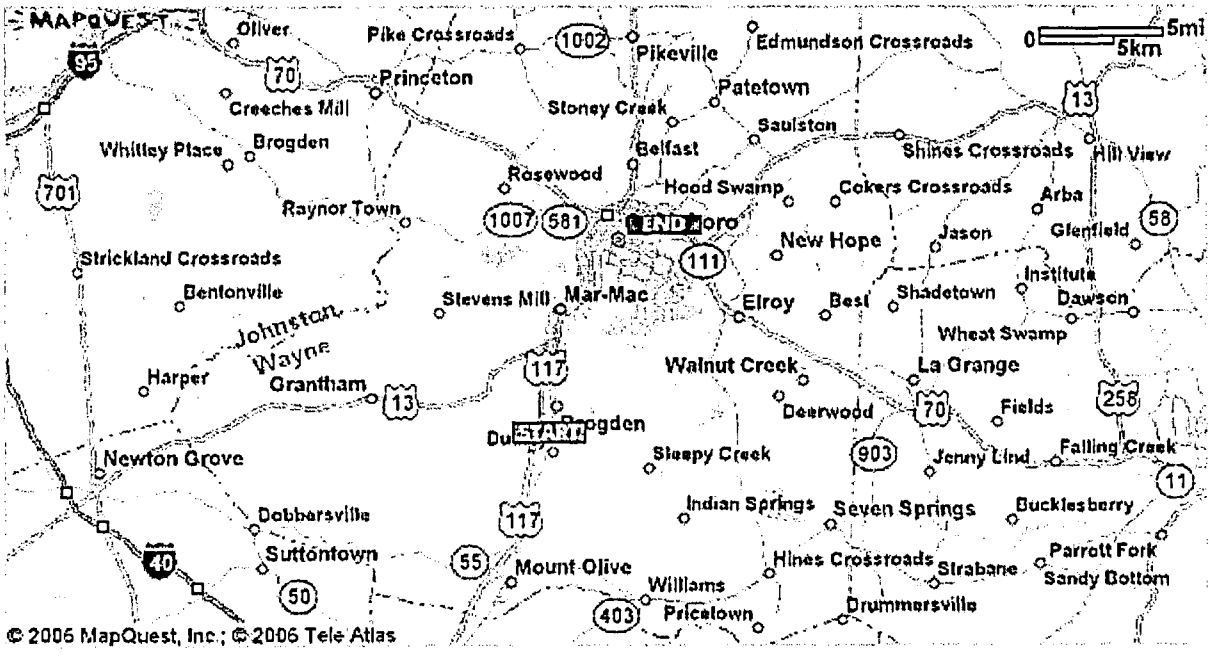
FROM: Rose Ballance, Hydrogeologist, Division of Water Quality Aquifer Protection Section, Washington Regional Office

SUBJECT: Laboratory Results – Groundwater Well
Johnnie Perry Residence
4172A US Hwy 117 Alternate South
Dudley, Wayne County

Please evaluate the attached laboratory data of groundwater samples collected from the water well at the above referenced property on May 15, 2006.

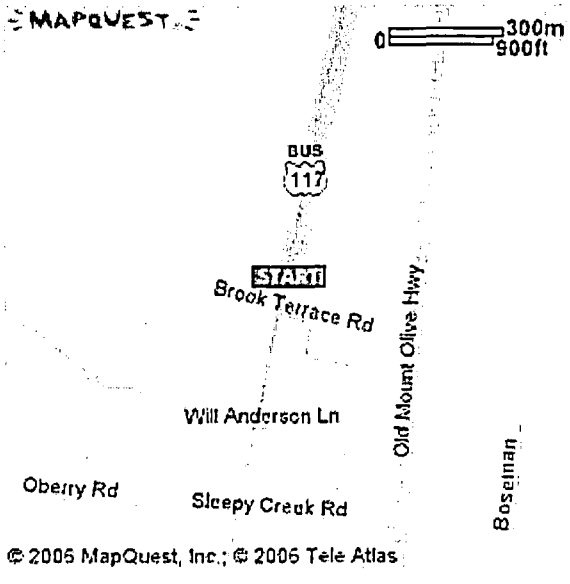
Before that date, the well was sampled three times (in August and September 2005 and in April 2006) by the Wayne County Health Department, the Aquifer Protection Section, and the Department of Health and Human Services, respectively. The samples were analyzed for volatile organic compounds. On all three occasions, methyl tert-butyl ether (MtBE) was detected at a concentration of 0.8 micrograms per liter.

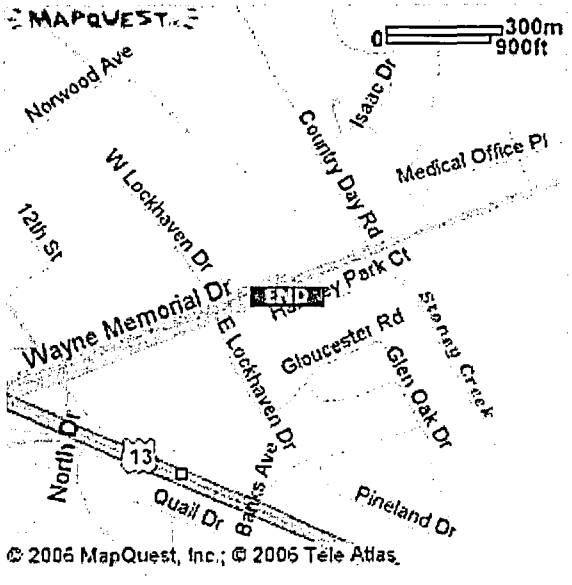
If you have any questions, please call me at 252-948-3949.



Start:
4172 Us Hwy 117 South Alt
Dudley, NC 28333-7240, US

End:
2700 Wayne Memorial Dr
Goldsboro, NC 27534-9494, US





MAPQUEST

Start: **4172 Us Hwy 117 South Alt**
Dudley, NC 28333-7240, US

End: **2700 Wayne Memorial Dr**
Goldsboro, NC 27534-9494, US

Notes:

Directions	Distance
Total Est. Time: 18 minutes	**Total Est. Distance:** 11.95 miles
1: Start out going NORTH on US-117 ALT toward OUTLAW RD SE.	3.1 miles
2: Turn SLIGHT RIGHT onto US-117 BYP N.	6.8 miles
3: US-117 BYP N becomes US-13 N / US-70 E / DR MARTIN LUTHER KING JUNIOR EXPY / NC-111 S.	1.0 miles
4: Take the WAYNE MEM DRIVE ramp toward WAYNE COMM COLLEGE / GOLDSBORO HIGH SCHOOL.	0.2 miles
5: Turn LEFT onto WAYNE MEMORIAL DR / NC-1556. Continue to follow WAYNE MEMORIAL DR.	0.5 miles
6: End at **2700 Wayne Memorial Dr** Goldsboro, NC 27534-9494, US	
Total Est. Time: 18 minutes	**Total Est. Distance:** 11.95 miles

Incident Management Data Entry Record

Incident Information

7/3/2006 10:06:54AM

Incident Number	**87538**	Site Priority	
Incident Name	Perry Residence/Young's Auto		
Incident Address	4172 US Hwy 117 Alternate S.		
Incident City/Town	Dudley	Incident Zip	28333
County	Wayne		
RO Contact	Rose Ballance		

Responsible Party Information

RP Contact	Young, Ricky		
RP Company	Young's Auto Center & Salvage		
RP Address	4172 US 117 Alternate S.		
RP City	Dudley	RP State	North Carolina
RP Zip	28333		
RP Phone	9196317979		
Ownership Type	Private		
Operation Type	Unknown		

Contamination Information

GW Contamination (Y/N)

Sources	Type	Wells	
Unknown	Other Petroleum Products	Private Well	1
		Private NonDrinking	
		Public Well	

Status Information

Report/Discovery Date	09/27/2005	Phase	Discovery
Notice Date		Next Due Date	
Next Action			
CSA Received		CAP Type	None
CSA Approved		CAP Received	.
CSA Reviewed		CAP Reviewed	
Last Modified	07/03/2006	CAP Approved	
		CAP Implemented	

Locational Information

Latitude (DMS)		Longitude (DMS)	
Latitude (DD)		Longitude (DD)	
Lat/Long QC		Quadrangle	

Comments

Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage. sampels collected from supply well between August 2005 and May 2006): three samples with MtBE at 0.8 ppb. Most recent sample below QL. Metals below 2L. Investion pending.

Subject: Re: Mr. Perry
From: "Mike Cunningham" <mike.cunningham@ncmail.net>
Date: Fri, 12 May 2006 13:10:54 -0400
To: "Rose Ballance" <Rose.Ballance@ncmail.net>

Rose,

I think that (from an APS perspective) the primary thing that caught my attention was the potential issue of the sump drain in the vehicle stripping & cleaning building Mr. Perry was describing. If what he was describing is true, that would constitute an illegal injection well (I spoke to Evan Kane here who until recently used to be the Underground Injection Control program & he said that if it discharges to a septic system that would be a separate issue that I think might constitute a violation under EPA regs). Also, the issue of draining the tanks on the ground I'm certain would constitute some violation of Hazardous Waste regs under DWMs Haz Waste program. I'll let you guys handle that aspect of things since that is out of my "jurisdiction" so to speak - but I'll definitely be interested to see what all is found out about the facility.

Michael Cunningham, PG
Hydrogeologist
NC DENR Division of Water Quality
Aquifer Protection Section

(919) 715-6196
(919) 715-0588 (fax)

----- Original Message ----- From: "Rose Ballance" <Rose.Ballance@ncmail.net>
To: "Mike Cunningham" <Mike.Cunningham@ncmail.net>
Sent: Friday, May 12, 2006 11:28 AM
Subject: Mr. Perry

> Hi, Mike,
>
> I am contemplating taking a trip to the Young's Auto Center facility to check out some items that came up during our visit with Mr. Perry. Please let me know if there is anything specific you need to know or if you would like to accompany me. I have not yet called the facility.
>
> Rose

Report of Investigation

Perry/Young Site Investigation
Wayne County
North Carolina

Washington Regional Office

North Carolina Department of Environment and Natural Resources
Division of Water Quality
Aquifer Protection Section

Prepared By:

Michael Cunningham, PG
Hydrogeologist I

August 24, 2006

Executive Summary

Slightly elevated methyl-tertiary butyl ether (MTBE) concentrations were detected in a private drinking water supply well at the Johnnie Perry residence located in the town of Dudley in Wayne County, North Carolina. The area is located in upper Coastal Plain terrain adjacent to a swampy wetlands area near Durhams Lake. The Washington Regional Office (WaRO) of the North Carolina Department of Environment and Natural Resources (NC DENR) detected slightly elevated concentrations of MTBE in groundwater samples collected from a private drinking water supply well on the property. The WaRO then requested that the Aquifer Protection Section of the NC DENR's Division of Water Quality conduct an investigation to determine the source of the MTBE detected in Mr. Perry's supply well and determine if a more significant groundwater contamination problem exists at the site.

Five shallow discreet groundwater samples were collected from five GeoProbe® borings. Four of the borings (SB-1, SB-2, SB-4 and SB-5) were conducted in areas along the perimeter of the site that are generally topographically and hydraulically downgradient of a potential source (Young's Auto Center & Salvage – a large auto salvage yard) and generally topographically and hydraulically upgradient of the site and supply well. Boring SB-3 was collected between the shop on Mr. Perry's property and the Perry residence (further inside the Perry property) in order to determine if the shop could be a potential contamination source. Collected samples were analyzed for volatile organic compounds (VOCs). These groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

Based on the apparent estimated direction of groundwater flow and the results of the analysis for VOCs in collected groundwater samples, it appears that groundwater contamination in the surficial aquifer is minimal. Very low trace concentrations of the compounds listed above (most of which likely originate from automotive products including gasoline, antifreeze, etc.) were detected in several of the borings, but only one detected compound (tetrachloroethylene in boring SB-3) barely exceeded it's NCAC 2L groundwater standard of 0.7 ug/l. The location of boring SB-3 indicates that this exceedance could potentially have originated on the Perry property. Based on these results, it appears that Young's Auto Center & Salvage is likely having a minor impact on groundwater quality in the area and could potentially be the source of low levels of MTBE (well below regulatory limits) in Mr. Perry's supply well. However, there is no indication of a significant release of contamination to groundwater from operations at the salvage yard migrating onto Mr. Perry's Property.

Table of Contents

the history of well sampling ; also results

1. Introduction

Slightly elevated methyl-tertiary butyl ether (MTBE) concentrations, but below North Carolina 2L Groundwater Standards, were detected in water samples collected from a private drinking water supply well at the Johnnie Perry residence in Dudley in Wayne County, North Carolina. Laboratory analysis of the supply well samples indicated that MTBE was present at a concentration of 0.8 parts per billion (ppb). The site location is depicted on **Figure 1.**

1.1 Background

The location of the contaminated supply well is indicated on **Figure 2.** According to the property owner, Mr. Perry, the well is approximately 80 feet deep. The supply well was inspected by NC DENR WaRO personnel on May 11, 2006 and it appeared to be properly constructed and grouted.

The area of concern in this assessment is predominantly commercial and residential. The site is a residence and small shop located south-southeast of a swampy wetlands area that appears to generally flow north and then west/northwest towards Durham's Lake approximately 3,000 feet away. A large auto salvage facility (Young's Auto Center & Salvage) essentially surrounds much of the Perry property.

1.2 Purpose

APS?

In response to a request from the Washington Regional Office of The North Carolina Department of Environment and Natural Resources (NC DENR), an assessment of shallow groundwater in the vicinity was conducted.

The purpose of this investigation is to investigate the potential/likely source of the MTBE detected in the shallow private water supply well and determine if a larger petroleum hydrocarbon contamination problem is present. MTBE is a synthetic fuel oxygenate gasoline additive. Not infrequently, the presence of low levels of MTBE in groundwater can signal the leading edge of a much larger release of petroleum hydrocarbons. This can occur because MTBE has a much higher mobility and greater persistence in groundwater than most other petroleum hydrocarbon constituents and is usually the first petroleum hydrocarbon indicator to be detected in a groundwater receptor at a fixed distance from the release (e.g. the leading edge of a plume). (Jacobs, Guertin & Herron, 2001)

The owner of the residence (Mr. Perry) has alleged that the salvage yard has consistently been failing to properly drain the salvaged vehicles of waste fluids (including oil, gasoline, antifreeze, etc.) prior to bringing them into the yard. Mr. Perry states that he has frequently noted fluids dripping and running from junked vehicles being brought onto the salvage yard. Additionally, he alleges that the salvage yard disposes of waste fluids into an open sump that discharges into the subsurface from the building that cuts up the vehicles, which is located upgradient and immediately adjacent to his property. However, employees of the salvage yard claim that Mr. Perry has done considerable vehicle and lawnmower repair work on his own property, which could have resulted in contaminant releases that impacted his supply well. Therefore, the source of the MTBE could either be from an onsite release or from a release from an upgradient source.

NCG 100182
SW discharge

2. Investigation

To assess local groundwater quality, five soil borings were conducted and groundwater samples were collected at a discreet interval within each of the borings.

2.1 Site Conditions

The subject property is a 2.8 acre tract of land that is bounded to the east, west and south by Young's Auto Center & Salvage, a large automobile salvage yard. A low-lying swampy wetlands area is located north of the site. The site and surrounding area is depicted in **Figure 2**.The property is accessed via a gravel road south of the property that is also shared by Young's Auto Salvage. The residence and shop are located in the southeast corner of the property. A small shallow dug pond is located in the southwest corner of the property. The remainder of the Perry property is grass lawn area around the house and shop and swampy wetlands in the north and northwest portions of the property.

has storm water permit General Permit

The Young's Auto Center & Salvage property covers approximately 90 acres, although the active salvage yard itself occupies approximately 38 acres and contains several thousand junked vehicles. The site and surrounding area generally slopes to the north and northwest towards the wetlands and creek. The elevation of the site ranges from approximately 175 feet above sea level (msl) to approximately 150 feet msl.

2.2 Regional Geology and Hydrogeology

The project site lies within the Inner Coastal Plain region of the North Carolina Coastal Plain. The Inner Coastal Plain region lies between the Tidewater region and the Fall Line and is characterized by a gently rolling land surface. Surface elevations range from about 50 feet msl near the eastern Tidewater boundary to slightly in excess of 700 feet msl near the Fall Line to the west. (Winner & Coble, 1996)

Coastal Plain sediments are generally characterized by clastic rocks ranging from clay to gravel, with lesser amounts of marine limestone, resting on crystalline basement rock. The sediment layers generally dip to the east and individual layers thicken to the east. (Winner & Coble, 1996) The site is underlain by a layer of Quaternary surficial sediments, which is in turn underlain by the Black Creek formation. The Black Creek Formation consists of gray to black lignitic clay with thin beds and laminae of fine-grained micaceous sand and thick lenses of cross-bedded sand. (NCGS, 1985)

The Coastal Plain groundwater flow system consists of aquifers made up of permeable sand, gravel, and limestone layers separated by confining units composed of less permeable sediments. These units constitute the sediments described above. Based on boring log data from Division of Water Resources Hydrogeologic Framework wells (Southern Wayne Sanitary District, Georgia-Pacific Corp, Southern Wayne Country Club), a shallow unconfined surficial aquifer consisting of Quaternary age deposits approximately 70 feet thick generally overlies the deeper hydrogeologic units in this area. The deeper units appear to consist of a relatively thin Black Creek confining unit (approximately 5-10 feet thick) overlying the Black Creek aquifer, which in turn overlies the Upper Cape Fear confining unit and aquifer.

2.3 Drilling and Sample Collection

The soil borings/groundwater sample points were conducted by NC DENR personnel on July 27, 2006. The borings were completed in the surficial aquifer. Soil boring/groundwater sample locations are shown on **Figure 3.**

GeoProbe® Direct Push Technology (DPT) equipment was used to perform the soil borings. Continuous soil sampling using the MacroCore® sampler was conducted in all of the borings. Based on the samples observed from the MacroCore® tubes, soils consist of fine to medium sand, sand/silt mixtures and some thin sand/clay stringers. Once the desired sampling depth was reached, a decontaminated stainless steel sampling screen with a detachable point was advanced in the borehole and then withdrawn four feet, exposing the screen to the formation. In each boring the screened sampler was positioned approximately three feet into the apparent saturated zone so that it straddled the water table. Prior to sampling, the screened interval was pumped using dedicated disposable tubing and a Waterra® foot valve pump until the discharge was relatively clear and free of sediment or a maximum of approximately 10-15 minutes if further reduction of visual turbidity was not apparent.

2.4 Groundwater Sampling and Analytical Results

Groundwater samples were collected from the borings on July 27, 2006 soon after boring completion. Samples were collected utilizing dedicated disposable polyethylene tubing and a Waterra® foot valve pump by NC DENR personnel. Samples were placed into pre-preserved VOA bottles without headspace, placed into an ice-filled cooler and transported to the DENR laboratory under Chain-of-Custody procedures. Collected samples were analyzed for Volatile Organic Compounds (VOCs). The groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

The analytical results are tabulated and presented in **Table 1.** The concentrations of VOCs in groundwater from the various borings are depicted on **Figure 3.**

3. Findings and Conclusions

Although permanent groundwater monitoring wells were not constructed and surveyed to definitively establish groundwater flow direction and gradient, it is apparent, based on topography and surficial hydrology, that groundwater flow at the subject site and vicinity should be predominantly from the topographically higher elevations (likely recharge areas) in the south-southeast to the lower elevations and surficial water bodies (discharge areas such as the wetlands) to the northwest.

Four of the soil borings (SB-1, SB-2, SB-4 and SB-5) were installed along the southern and eastern edges of the Perry property that generally appears to be the most topographically and hydraulically upgradient. The purpose of this was to establish if the low levels of contamination detected in the supply well, which is downgradient of the borings, was the leading edge of a much larger plume that would most likely originate in the surficial water table (from either an onsite or nearby offsite source of petroleum hydrocarbons).

Boring SB-3 was collected between the shop on Mr. Perry's property and the house (further inside the Perry property) in order to determine if the shop was a possible contamination source. Collected samples were analyzed for volatile organic compounds (VOCs). These groundwater samples had contaminant concentrations that ranged from non-detect for VOCs up to 2.4 ug/L of 2-methyl-1-Propene, 0.82 ug/L of Hexane, 0.73 ug/L of Methyl Cyclopentane, 1.8 ug/L of Nonanal, 4.5 ug/L of Propene, and 0.72 ug/L of Tetrachloroethene.

Based on the apparent estimated direction of groundwater flow and the results of the analysis for VOCs in collected groundwater samples, it appears that groundwater contamination of the surficial aquifer in the vicinity of the Perry property is minimal. Very low trace concentrations of the compounds listed above (most of which likely originate from automotive products including gasoline, antifreeze, etc.) were detected in several of the borings, but only one detected compound (tetrachloroethylene in boring SB-3) barely exceeded it's NCAC 2L groundwater standard of 0.7 ug/l. The location of boring SB-3 indicates that this exceedance could potentially have originated on the Perry property. Based on these results, it appears that Young's Auto Center & Salvage is likely having a minor impact on groundwater quality in the area and could potentially be the source of low levels of MTBE (well below regulatory limits) in Mr. Perry's supply well. However, there is no indication of a significant release of contamination to groundwater from operations at the salvage yard migrating onto Mr. Perry's Property.

4. References

Winner, M.D. and Coble, R.W. - Hydrogeologic Framework Of the North Carolina Coastal Plain, U.S, Geological Survey Professional Paper 1404-I, United States Government Printing Office, Washington, D.C., 1996.

North Carolina Geological Survey – Geologic Map of North Carolina, 1985.

Jacobs, James; Guertin, Jacques; Herron, Christy – MTBE: Effects on Soil and Groundwater Resources, CRC Press, 2001.

Table 1
VOC Concentrations in Groundwater Samples
Perry/Young Site
Wayne County, North Carolina

COMPOUND	2L STANDARD	SAMPLE ID					
		SB-1	SB-2	SB-3	SB-4	SB-5	TB-1
2-methyl-1-Propene	NS	2.4	ND	ND	1.3	ND	ND
Hexane	420	0.82	ND	ND	ND	ND	ND
Methyl Cyclopentane	NS	0.73	ND	ND	ND	ND	ND
Nonanal	NS	ND	ND	ND	1.8	ND	ND
Propene	NS	4.5	ND	ND	1.6	ND	ND
Tetrachloroethene	0.7	ND	ND	**0.72**	ND	ND	ND

Notes:
1. Concentrations in µg/L
2. Bold entries indicate exceedences of 15A NCAC 2L Groundwater Standards
3. NS – No Standard
4. ND – Not Detected
5. TB-1 – Trip Blank

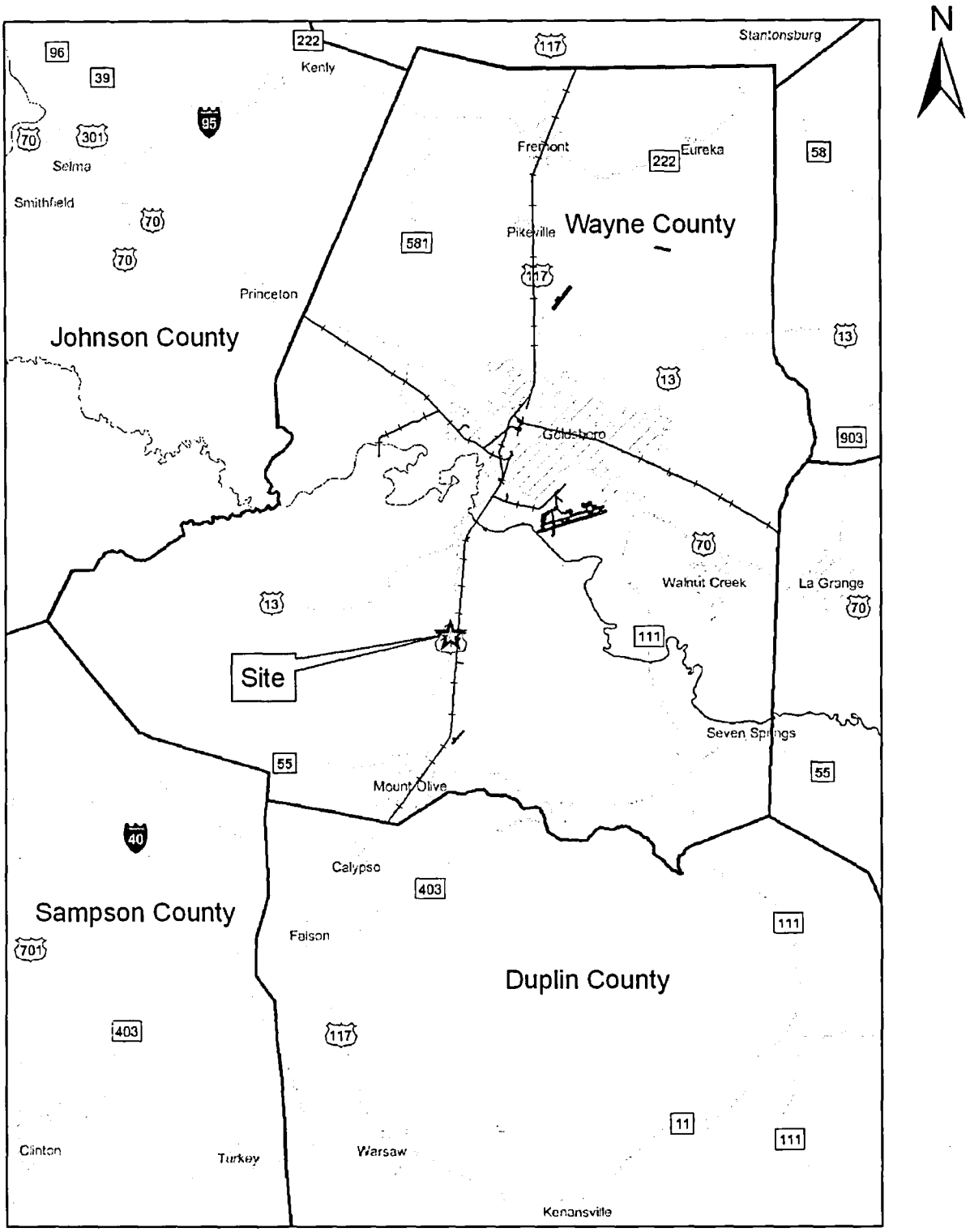


Figure 1 Site Location Map
Perry/Young Site, Wayne County

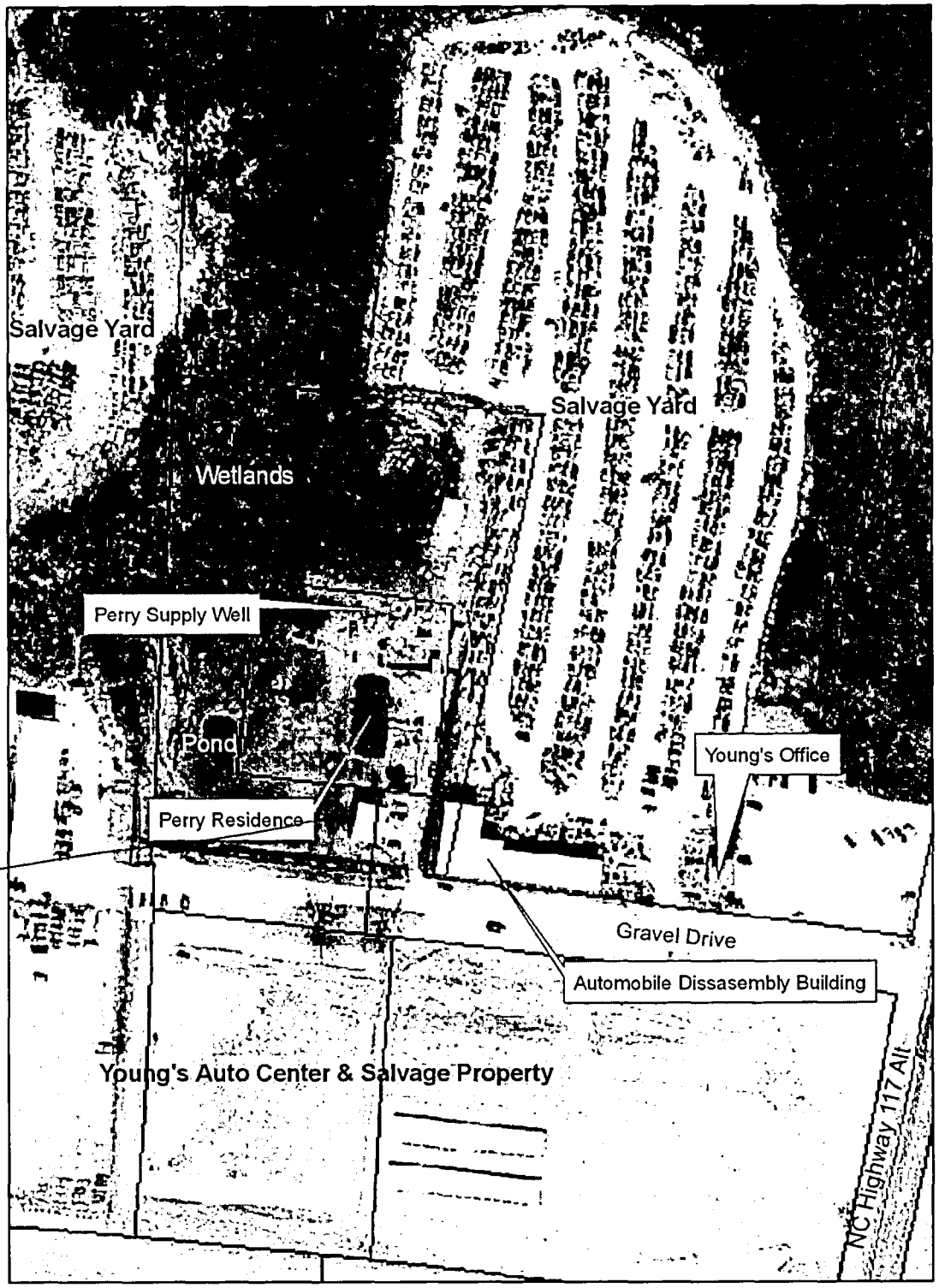


Figure 2 Site Map
Perry/Young Site, Wayne County

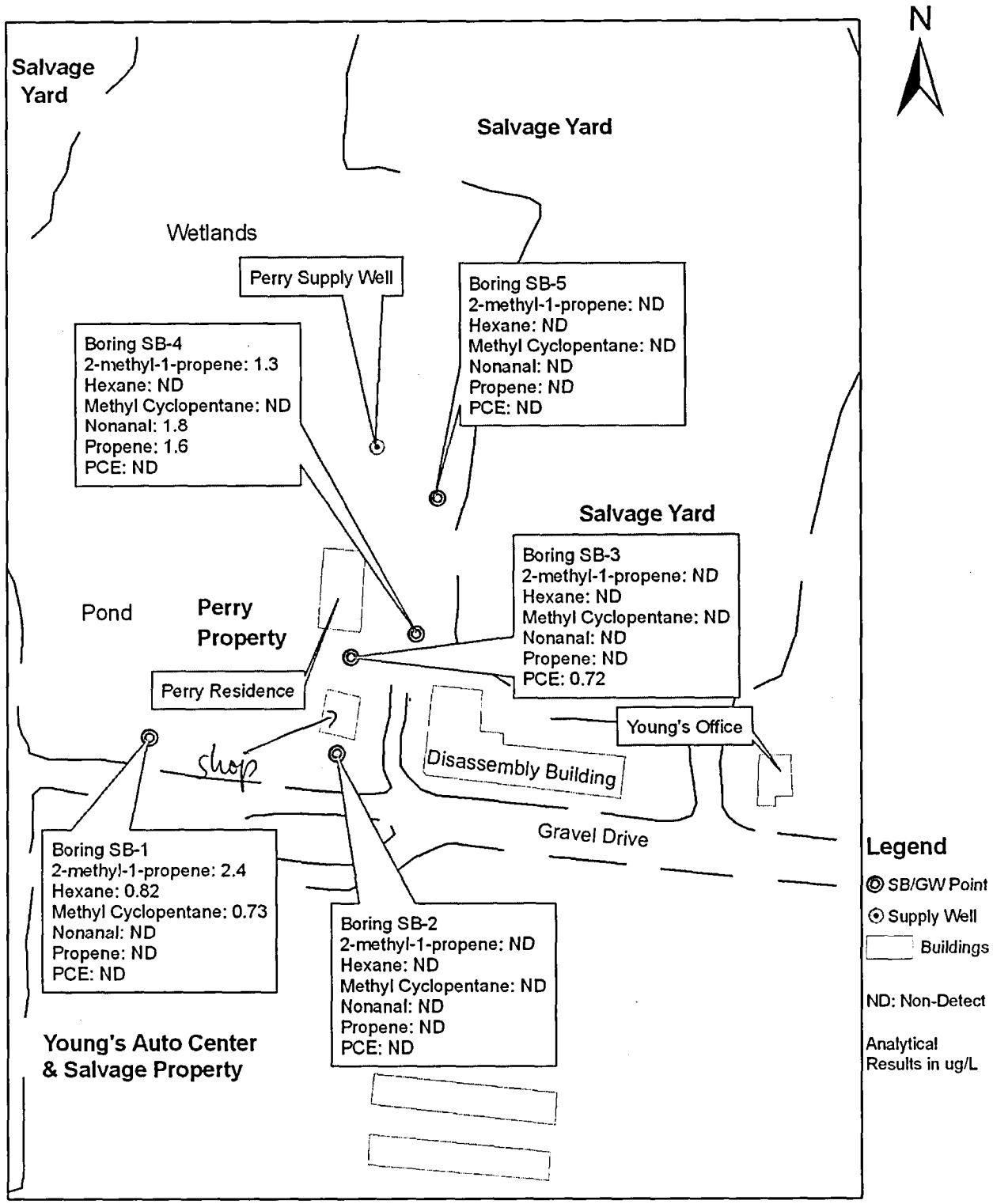


Figure 3 Boring Locations and VOC Concentrations
Perry/Young Site, Wayne County

Appendix A
Soil Boring Logs

NC DENR Division of Water Quality - Aquifer Protection Section **BORING LOG**	Page: 1 of 1 Boring #: SB-1 County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 9' Screen Interval: 4'-8'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Dark brown organic silty sand - moist			~ 2' recov.
			" "			
			Med. Brown-tan silty sand - moist			
			" " – v. moist			
	5		" " – saturated			SS Screen set from 4'-8' bls
		SB1	" " with 2-3 ~1" sand lenses			
			Med. Brown-tan silty sand - saturated			
			" "			
	10					
	15					
	20					
	25					
	30					

NC DENR Division of Water Quality - Aquifer Protection Section **BORING LOG**	Page: 1 of 1 Boring #: SB-2 County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Dark brown organic sandy silt - moist			~ 3' recov.
			" " w/ trace clay - moist			
			" "			
			Tan sandy clay – moist			
	5		" "			
			Reddish tan sandy clay - moist			
			" "			
			Reddish tan sandy silt w/ some clay – v. moist			
			" "			
	10		" " – v. moist - saturated			SS Screen set from 9'-13' bls
		SB2	Tan medium- coarse sand w/ some silt - saturated			
			" "			
			Not sampled			
	15					
	20					
	25					
	30					

NC DENR Division of Water Quality - Aquifer Protection Section **BORING LOG**	Page: 1 of 1 Boring #: SB-3 County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Dark brown organic silty sand - moist			~ 3' recov.
			Orange tan silty sand - moist			
			Orange tan clayey sand - moist			
			" "			
	5		" "			
			" "			
			Reddish orange tan silty sand w/ trace clay – moist			
			" " – v. moist			
			" "			SS Screen set from 9'-13' bls
	10	SB3	Orange tan & red silty sand - saturated			
			" "			
			" "			
			Not sampled			
	15					
	20					
	25					
	30					

NC DENR Division of Water Quality - Aquifer Protection Section **BORING LOG**	Page: 1 of 1 Boring #: SB-4 County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Tan organic silty sand - moist			~ 3' recov.
			" "			
			" "			
			" "@ 3.5' silty sand w/ clay			
	5		Silty sand w/ some clay - moist			
			Silty sandy clay – clayey sand - moist			
			" "			
			Orange tan silty sand w/ some clay – v. moist			
			" "			SS Screen set from 9'-13' bls
	10	SB4	Tan silty sand - saturated			
			" "			
			Orange tan silty sand w/ trace clay - saturated			
			Not sampled			
	15					
	20					
	25					
	30					

NC DENR Division of Water Quality - Aquifer Protection Section **BORING LOG**	Page: 1 of 1 Boring #: SB-5 County: Wayne

Project: Perry/Young Site Region: WaRO Hydro/Tech: M. Cunningham

Drill Equipment & Method: GeoProbe Start Date: 7/27/06 Completion Date: 7/27/06

Sample Method: Stainless Screen Boring Diameter: 2.125" Total Depth: 13' Screen Interval: 9'-13'

Land Elevation: TOC Elevation: Groundwater (ft btoc) 0 Hours: 24 Hours:

Elev.	Depth (ft. bls)	Sample #	Lithology Description	OVA ppm	Well Diagram	Notes/Well Description
	1		Brown tan organic silty sand - moist			~ 3' recov.
			Tan orange silty sand - moist			
			" "			
			" " silt content incr. w/ depth			
	5		" "			
			Tan orange clayey sand - moist			
			" "			
			Tan orange silty sand, trace clay – v. moist			
			" "			SS Screen set from 9'-13' bls
	10	SB5	Tan silty sand - saturated			
			" "			
			" "			
			Not sampled			
	15					
	20					
	25					
	30					

Appendix B
Analytical Results

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB1	Sample ID:	AB06714
County:	WAYNE	PO Number #	6G1448
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	08:25
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/09/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	10:25		

DIVISION OF WATER QUALITY DWQ

8/10/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB1	Sample ID:	AB06714
County:	WAYNE	PO Number #	6G1448
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	08:25
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/09/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	10:25		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
2-methyl-1-Propene		2.4	N1	ug/L	RKELLING
Hexane		0.82	N1	ug/L	RKELLING
methyl Cyclopentane		0.73	N1	ug/L	RKELLING
Propene		4.5	N1	ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB2	Sample ID:	AB06715
County:	WAYNE	PO Number #	6G1449
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	11:55		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	PERRY/YOUNG SITE - DUDLEY		
Location ID:	78718900SB2	Sample ID:	AB06715
County:	WAYNE	PO Number #	6G1449
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	11:55		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	PERRY/YOUNG SITE - DUDLEY				
Location ID:	78718900SB3		Sample ID:	AB06716	
County:	WAYNE		PO Number #	6G1450	
River Basin			VisitID		
Report To	CSP		Date Received:	07/28/2006	
Region:	WARO		Time Received:	09:55	
Collector:	M CUNNINGHAM		Labworks LoginID	MMA	
Sample Matrix:	GROUNDWATER		Date Reported:	08/11/2006	
Loc. Type:	WATER SUPPLY				
Sample Depth					
Collect Date:	07/27/2006				
Collect Time::	23:35				

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8/11/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB3	Sample ID:	AB06716
County:	WAYNE	PO Number #	6G1450
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/11/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	23:35		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	0.72		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	PERRY/YOUNG SITE - DUDLEY		
Location ID:	78718900SB4	Sample ID:	AB06717
County:	WAYNE	PO Number #	6G1451
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM		
Sample Matrix:	GROUNDWATER	Labworks LoginID	MMA
Loc. Type:	WATER SUPPLY	Date Reported:	08/11/2006
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	14:50		

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Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

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NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB4	Sample ID:	AB06717
County:	WAYNE	PO Number #	6G1451
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/11/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	14:50		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
2-methyl-1-Propene		1.3	N1	ug/L	RKELLING
Nonanal		1.8	N1	ug/L	RKELLING
Propene		1.6	N1	ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	PERRY/YOUNG SITE - DUDLEY		
Location ID:	78718900SB5	Sample ID:	AB06718
County:	WAYNE	PO Number #	6G1452
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	15:55		

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9C 8/8/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900SB5	Sample ID:	AB06718
County:	WAYNE	PO Number #	6G1452
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	WATER SUPPLY		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	15:55		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	787189003LK	Sample ID:	AB06713
County:	WAYNE	PO Number #	6G1447
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	TRIP BLANK		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	07:10		

8/8/06

Analyte Name	PQL	Result	Qualifier	Units	Approved By
LAB					
Sample temperature at receipt by lab		5.1		°C	DSATTERWHITE
VOL					
Dichlorodifluoromethane	1.0	Not detected		ug/L	RKELLING
Chloromethane	0.50	Not detected		ug/L	RKELLING
Vinyl Chloride	0.50	Not detected		ug/L	RKELLING
Bromomethane	0.50	Not detected		ug/L	RKELLING
Chloroethane	0.50	Not detected		ug/L	RKELLING
Trichlorofluoromethane	0.50	Not detected		ug/L	RKELLING
1,1-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methylene Chloride	10	Not detected		ug/L	RKELLING
trans-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Methyl Tert-Butyl Ether	0.25	Not detected		ug/L	RKELLING
1,1-Dichloroethane	0.25	Not detected		ug/L	RKELLING
cis-1,2-Dichloroethene	0.25	Not detected		ug/L	RKELLING
Bromochloromethane	0.25	Not detected		ug/L	RKELLING
Chloroform	0.25	Not detected		ug/L	RKELLING
2,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
1,2-Dichloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1-Trichloroethane	0.25	Not detected		ug/L	RKELLING
1,1-Dichloropropene	0.25	Not detected		ug/L	RKELLING
Carbon Tetrachloride	0.25	Not detected		ug/L	RKELLING
Benzene	0.25	Not detected		ug/L	RKELLING
Dibromomethane	1.0	Not detected		ug/L	RKELLING
1,2-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Trichloroethene	0.25	Not detected		ug/L	RKELLING
Bromodichloromethane	0.25	Not detected		ug/L	RKELLING
cis-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
trans-1,3-Dichloropropene	0.25	Not detected		ug/L	RKELLING
1,1,2-Trichloroethane	0.25	Not detected		ug/L	RKELLING
Toluene	0.25	Not detected		ug/L	RKELLING
1,3-Dichloropropane	0.25	Not detected		ug/L	RKELLING
Dibromochloromethane	0.25	Not detected		ug/L	RKELLING
(EDB)1,2-Dibromoethane	0.25	Not detected		ug/L	RKELLING

NC DWQ Laboratory Section Results

Loc. Descr.:	**PERRY/YOUNG SITE - DUDLEY**		
Location ID:	78718900BLK	Sample ID:	AB06713
County:	WAYNE	PO Number #	6G1447
River Basin		VisitID	
Report To	CSP	Date Received:	07/28/2006
Region:	WARO	Time Received:	09:55
Collector:	M CUNNINGHAM	Labworks LoginID	MMA
Sample Matrix:	GROUNDWATER	Date Reported:	08/08/2006
Loc. Type:	TRIP BLANK		
Sample Depth			
Collect Date:	07/27/2006		
Collect Time::	07:10		

Analyte Name	PQL	Result	Qualifier	Units	Approved By
Tetrachloroethene	0.25	Not detected		ug/L	RKELLING
Chlorobenzene	0.25	Not detected		ug/L	RKELLING
Ethylbenzene	0.25	Not detected		ug/L	RKELLING
Bromoform	1.0	Not detected		ug/L	RKELLING
m,p-Xylene	0.50	Not detected		ug/L	RKELLING
Styrene	0.25	Not detected		ug/L	RKELLING
1,1,2,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
1,1,1,2-Tetrachloroethane	0.25	Not detected		ug/L	RKELLING
o-Xylene	0.25	Not detected		ug/L	RKELLING
1,2,3-Trichloropropane	0.25	Not detected		ug/L	RKELLING
Isopropylbenzene	0.25	Not detected		ug/L	RKELLING
Bromobenzene	0.25	Not detected		ug/L	RKELLING
n-Propylbenzene	0.25	Not detected		ug/L	RKELLING
2-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
4-Chlorotoluene	0.25	Not detected		ug/L	RKELLING
1,3,5-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
tert-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2,4-Trimethylbenzene	0.25	Not detected		ug/L	RKELLING
sec-Butylbenzene	0.25	Not detected		ug/L	RKELLING
m-Dichlorobenzene (1,3)	0.25	Not detected		ug/L	RKELLING
p-Dichlorobenzene (1,4)	0.25	Not detected		ug/L	RKELLING
o-Dichlorobenzene (1,2)	0.25	Not detected		ug/L	RKELLING
p-Isopropyltoluene	0.25	Not detected		ug/L	RKELLING
n-Butylbenzene	0.25	Not detected		ug/L	RKELLING
1,2-Dibromo-3-Chloropropane	2.0	Not detected		ug/L	RKELLING
1,2,4-Trichlorobenzene	0.50	Not detected		ug/L	RKELLING
Naphthalene	0.50	Not detected		ug/L	RKELLING
Hexachlorobutadiene	0.50	Not detected		ug/L	RKELLING
1,2,3-Trichlorobenzene	1.0	Not detected		ug/L	RKELLING
VOC'S BY GC/MS		Not detected		ug/L	RKELLING

Report to: **GROUNDWATER SECTION** Page 1 of 1

CHAIN OF CUSTODY (COC) RECORD

NC DENR/DWQ LABORATORY (check one): ☑ | CENTRAL ☐ | ARO ☐ | WaRO

For Investigation of: Perry/Young Prop. Incident No. 87189

Sample collector (print name) and GW-54 forms completed by: Michael Cunningham Sample collector's signature: Michael S

Field storage conditions and location (when applicable): In cooler w/ice in vehicle

Lab Use Only LAB NO.	SAMPLE ID	QUAD. NO.	LOCATION	DATE SAMPLED	TIME SAMPLED	NUMBER OF CONTAINERS
AB06713	BLK		787189008LK	7/27/06	0710	3
AB06714	SB-1		787189005B1	7/27/06	1025	4
AB06715	SB-2		787189005B2	7/27/06	1155	4
AB06716	SB-3		787189005B3	7/27/06	1335	4
AB06717	SB-4		787189005B4	7/27/06	1450	4
AB06718	SB-5		787189005B5	7/27/06	1555	4

	Date	Time		Date	Time
Relinquished by (signature):	7/28/05	0850	Received by (signature): Harold M Williams	060728	0955
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time

Method of Shipment (check one): State Courier☐ Hand-delivered☑ Federal Express☐ UPS☐ Other:

Security Type and Conditions: Sealed by: Michael Cunningham Broken by: Harold M Williams

INTRALABORATORY CHAIN OF CUSTODY - Lab Use Only

LAB NUMBERS FROM	THROUGH	NUMBER BOTTLES	ANALYSES REQUESTED	RELINQUISHED BY:	RECEIVED BY:	DATE	TIME
AB06713	AB06718	23	Volatiles	Harold M Williams	Joan A. Styles	7/28/06	10:34a

06 AUG -8 PM 2:01

RECEIVED/DENR/GWP PROTECTION SEC.

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
Aquifer Protection Section
July 14, 2006

Mr. Johnnie Perry
4172 A US Highway 117 Alternate South
Dudley, North Carolina 28333

RE: Groundwater Sample Analytical Results
Johnnie Perry Supply Well
4172 A US Highway 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Mr. Perry:

On May 11, 2006, personnel from the Washington Regional Office collected samples from your water well located at the above referenced property. The samples were analyzed for volatile organic compounds (VOCs) and metals (silver aluminum, arsenic, barium, calcium, cadmium, chromium, copper, iron, mercury, potassium, magnesium, manganese, sodium, nickel, lead, selenium, and zinc.

The VOC laboratory results indicate no concentrations above the laboratory reporting limits. Concentrations of metals are summarized in the table below. Laboratory reports are attached.

Parameter (Metals)	2L Groundwater Standard (µg/L)	Test Results (µg/L)
Ag - Silver	17.5	<5
Al - Aluminum	NE	1,000
As - Arsenic	10	<5
Ba - Barium	2,000	280
Ca – Calcium	NE	1,300
Cd – Cadmium	1.75	<2
Cr – Chromium	50	<25
Cu – Copper	1,000	100
Fe – Iron	300	290
Hg – Mercury	1.05	0.77
K – Potassium	NE	2,500
Mg – Magnesium	NE	3,000
Mn – Manganese	50	55
Na – Sodium	NE	3,500
Ni – Nickel	100	<10
Pb – Lead	15	<10
Se – Selenium	50	<5
Zn - Zinc	1,050	29

µg/L = micrograms per liter
NE = Standard not established
< = Concentrations are below the laboratory reporting limits

North Carolina Division of Water Quality
943 Washington Square Mall
Washington, NC 27889

Internet: h2o.enr.state.nc.us
Phone: 252-946-6481
FAX 252-975-3716

The table shows that none of the metals concentrations exceed the 15A NCAC 2L groundwater quality standards.

The results were submitted to the Department of Health and Human Services (DHHS), Division of Public Health Occupational and Environmental Epidemiology Branch, for a drinking water health risk evaluation. The results of the evaluation, received on June 21, 2006, show that 'the water should be considered safe for normal use". A copy of the report is attached.

Please note that your water samples were not analyzed for all possible analyses and that the provided analytical results should not be interpreted as an over all indication of water quality. For additional information concerning these results, or any potential health impacts, please contact the Wayne County Health Department. For your convenience this office will send a copy of this letter, along with the analytical results and drinking water health risk evaluation to the Wayne County Health Department.

Please feel free to contact me at (252) 948-3949if you have any further questions or require additional information.

Sincerely,

Rose Ballance, L.G.
Hydrogeologist
Washington Regional Office

cc: Mike Cunningham, Field Investigation Unit, APS Central Office
Wayne County Health Department
√WaRO files

ENR/DWQ LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. AB04271

REPORTED BY AT AT
CHECKED BY VA
REVIEWED BY VA

SUPERVISOR RBK
DATE 5/25/06

ENTERED BY
DATE

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L	CAS#	Volatile Organic Target Compound	PQL ug/L	RESULT ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	1.0	U
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.50	U	95-49-8	2-Chlorotoluene	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
594-20-7	2,2-Dichloropropane	0.25	U	96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.50	U
67-66-3	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.50	U
74-97-5	Bromochloromethane	0.25	U	87-61-6	1,2,3-Trichlorobenzene	1.0	U
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	U
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	U
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	U
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	U
74-95-3	Dibromomethane	1.0	U	98-82-8	Isopropylbenzene	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	103-65-1	n-Propylbenzene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	U
127-18-4	Tetrachloroethene	0.25	U	95-63-6	1,2,4-Trimethylbenzene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	U
124-48-1	Dibromochloromethane	0.25	U	99-87-6	p-isopropyltoluene	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U	104-51-8	n-Butylbenzene	0.25	U
108-90-7	Chlorobenzene	0.25	U	91-20-3	Naphthalene	0.50	U

		mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon		0.20	X

Other Volatile Organics Detected (up to 10 highest peaks)	Result ug/L
NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/MS.	

PQL Practical Quantitation Limit- Subject to change due to instrument sensitivity
N- Tentatively Identified, not confirmed
J- Estimated Value
U- Samples analyzed for this compound but not detected
X- Sample not analyzed for this compound
N3- Estimated concentration is <PQL and >MDL
P Elevated PQL due to matrix interference and/or sample dilution

COMMENTS:

RECEIVED
JUN 19 2006
WASHINGTON REGIONAL OFFICE
DWQ

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	AB04271
Date Received :	5/17/2006
Time Received :	9:00 AM
Received By :	DS
Released By :	SMM
Date reported :	6/14/2006

QC 6/15/06

COUNTY : WAYNE
QUAD NO:

SAMPLE PRIORITY
[X] ROUTINE [ ] EMERGENCY

REPORT TO : WARO Regional Office
COLLECTOR(S) : C STONE
DATE: 5/16/2006
TIME: 10:05

[ ] CHAIN OF CUSTODY
[W] SAMPLE TYPE
WS-1

PURPOSE:

Owner: JOHNNIE PERRY
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

RECEIVED
JUN 19 2006
WASHINGTON REGIONAL OFFICE
DWQ

LABORATORY ANALYSIS

	BOD 310	mg/L		Diss. Solids 70300	mg/L	X	Ag-Silver 46566	5.0U ug/L		Organochlorine Pesticides
	COD High 340	mg/L		Fluoride 951	mg/L	X	Al-Aluminum 46557	1000 ug/L		Organophosphorus Pesticides
	COD Low 335	mg/L		Hardness: total 900	mg/L	X	As-Arsenic 46551	5.0U ug/L		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness: (non-carb) 902	mg/L	X	Ba-Barium 46558	280 ug/L		
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/L	X	Ca-Calcium 46552	1.3 mg/L		Acid Herbicides
	TOC	mg/l		Specific Cond. 95	umhos/cm2	X	Cd-Cadmium 46559	2.0U ug/L		
	Turbidity	NTU		Sulfate	mg/L	X	Cr-Chromium 46560	25U ug/L		Semivolatiles
	Residue., Suspended 530	mg/L		Sulfide 745	mg/L	X	Cu- Copper 1042	100 ug/L		TPH-Diesel Range
	Total Suspended solids	mg/L		MBAS	mg/L	X	Fe- Iron 1045	290 ug/L		
				Oil and Grease	mg/L	X	Hg- Mercury 71900	0.77 ug/L	X	Volatile Organics (VOA bottle)
	pH	units		Silica	mg/L	X	K-Potassium 46555	2.5 mg/L		
	Alkalinity to pH 4.5	mg/L		Boron		X	Mg- Magnesium 927	3.0 mg/L		TPH-Gasoline Range
	Alkalinity to pH 8.3	mg/L		Formaldehyde	mg/L	X	Mn-Manganese 1055	55 ug/L		TPH-BTEX Gasoline Range
	Carbonate	mg/L		NH3 as N 610	mg/L	X	Na- Sodium 929	3.5 mg/L		
	Bicarbonate	mg/L		TKN as N 625	mg/L	X	Ni-Nickel	10U ug/L		
	Carbon dioxide	mg/L		NO2 +NO3 as n 630	mg/L	X	Pb-Lead 46564	10U ug/L		
	Chloride	mg/L		P: Total as P 665	mg/L	X	Se-Selenium	5.0U ug/L		
	Chromium: Hex 1032	ug/L		PO4	mg/L	X	Zn-Zinc 46567	29 ug/L		
	Color: True 80	c.u.		Nitrate (NO_3 as N) 620	mg/L					
	Cyanide 720	mg/L		Nitrite (NO_2 as N) 615	mg/L					

COMMENTS :

AB04271

NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY BRANCH

DRINKING WATER HEALTH RISK EVALUATION
GENERAL

Perry well

DATE 6/21/06 COUNTY Wayne LABORATORY # AB04271

- [x] Based on these analytical results, this water should be considered safe for normal usage.
- [ ] Chemical analysis did not show any contamination. Water should be resampled if odor or taste persists.
- [ ] The water should not be used for drinking or cooking purposes; avoid prolonged bathing/showering.
- [ ] Based on these analytical results, this water is highly contaminated and should not be used for drinking, cooking, or bathing/showering.
- [ ] The laboratory results are not conclusive, please resample.

PLEASE INDICATE ON LAB SHEET THAT IT IS A RESAMPLE AND PROVIDE PREVIOUS SAMPLE NUMBER(S).

COMMENTS:

Post-it® Fax Note 7671	Date 6/21/06	# of pages ▶ 1
To Rose Bellance	From Dr. Ken Rudo	
Co./Dept. APS/Wake	Co. NC DHHS	
Phone #	Phone # 919 707 5911	
Fax # 252-975-3716	Fax #	

For further information, contact **Dr. Ken Rudo with the Occupational and Environmental Epidemiology Branch at (919) 707-5911.**

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
Aquifer Protection Section
April 12, 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7005 1820 0002 4630 8493

Mr. Johnnie Perry
4172 A US Highway 117 Alternate South
Dudley, North Carolina 28333

Dear Mr. Perry:

On September 27, 2005, Washington Regional Office (WaRO) staff collected a water sample from your supply well to verify the results of a sample collected from the same well by the Wayne County Health Department in August 2005. Both samples tested positive for petroleum hydrocarbons, specifically the fuel additive methyl tert-butyl ether (MtBE). In both samples, MtBE concentrations were below the regulatory standard. The adjacent property (Young's Auto Center & Salvage) has been identified as a possible source of the contamination.

In a letter dated November 14, 2005, this office proposed to conduct a preliminary investigation to determine the source and extent of the contamination and requested your written permission to access your property for the purpose of testing the soil and groundwater.

Within the past two months, WaRO staff have made several follow-up calls to your voice mail regarding the investigation and offering to resample your well. To date, these calls have not been returned.

Please inform this office, either in writing or by phone, within ***fifteen (15) days*** of receipt of this letter if you wish to pursue the investigation or have your well resampled. If we do not receive a response from you within this time frame, we will call off the investigation and close the incident.

Sincerely,

Rosemarie Ballance, LG
Hydrogeologist

cc: Mike Cunningham, Field Investigations Unit, APS Central Office
WaRO

North Carolina Division of Water Quality
943 Washington Square Mall
Washington, NC 27889

Internet: h2o.enr.state.nc.us
Phone: 252-946-6481
FAX 252-975-3716

DIVISION OF WATER QUALITY
Aquifer Protection Section
February 16, 2006

MEMORANDUM:

TO: Ted Bush, Chief Aquifer Protection Section, Central Office

Through: David May, Supervisor Aquifer Protection Section DLM
Washington Regional Office

FROM: Rose Ballance, Hydrogeologist Aquifer Protection Section
Washington Regional Office

SUBJECT: Request for Investigation
Perry/Young Property
4172 US Hwy 117 Alternate South
Dudley, Wayne County
Site Ranking: 75/B
Incident Number 87189

Attached is a draft request for a subsurface investigation to identify the source of MtBE contamination impacting a residential supply well at the above location (Perry Residence) and assist with determining the responsible party.

MtBE (at a concentration of 0.8 µg/L) was detected in a water sample collected from the well in late August 2005 by Wayne County Environmental Health Department staff. MtBE was again detected, at the same concentration, in a water sample collected by WaRO staff on September 27, 2005.

The Perry Residence is almost completely surrounded by a vehicle salvage facility. The facility (Young's Auto Center & Salvage) occupies about 90 acres of land and is considered a potential source of the contamination. Of particular concern is a parts cleaning area, located adjacent to Mr. Perry's property. The area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. Alternatively, contamination may have occurred in the past when, according to salvage yard employees, Mr. Perry engaged in lawn mower repairs on his property.

To identify the source of contamination and responsible party, about six Geoprobe borings are proposed. The investigation will be confined to Mr. Perry's property as we have not received an access agreement from Young's Auto Center. A planning meeting will be scheduled after the draft request is approved.

If you have any questions, please call me at 252-948-3949.

REQUEST FOR INVESTIGATION (RFI)

[1] Incident/Project name: PERRY / YOUNG PROPERTY	[2] Incident Number: 87538
[3] Region/County: WASHINGTON/WAYNE	[4] Site Ranking: 75/B
[5] Address/Location: 4172 South US 117 Alternate Dudley, NC 28333	[6] USGS 7.5' Quadrangle Name and Site Latitude & Longitude: Goldsboro SW QUADRANGLE 35 16 46.8 N, 78 02 28.7 W
[7] Regional Office Contact: Rose Ballance	[8] Date submitted: February 15, 2006

[9] RFI Planning Meeting(s)*: To be conducted prior to final approval.

[10] What event(s) or groundwater issue(s) necessitated this Request for Investigation?

In late August 2005 Wayne County Environmental Health Department staff sampled a water supply well at the Perry residence for volatile organics. The samples had 0.8 ppb MtBE. MtBE was detected at the same concentration in a follow-up sample collected by WaRO staff on September 27, 2005. The Perry residence is almost completely surrounded by land owned by Ricky Young who uses the property for an Auto Center and Salvage yard. An investigation is requested to identify the source of the contamination and the responsible party. Although the detected presence of MtBE is below the 2L groundwater standard, identification of the source area is warranted to confirm whether a much larger problem exists.

[11] How will implementation of the proposed Investigation help identify the Responsible Party or resolve the issue(s) listed in #10 above?

Implementation of the proposed investigation should provide information as to the source of the contamination in Mr. Perry's well and to determine if contaminant concentrations are higher in other areas. Mr. Perry has noticed surface run-off onto his property from a parts cleaning area that borders his property. The parts cleaning area is topographically (and likely hydrologically) upgradient of Mr. Perry's property and supply well. According to salvage yard employees, Mr. Perry has in the past engaged in lawn mower repair on his property.

[12] Attach a Site Location Map (combine with other map(s) if appropriate). *Map attached*

REQUEST FOR INVESTIGATION (RFI)

[13] DRILLING INFORMATION	
[13a] Proposed drilling method: Geoprobe	[13b] Estimated depth to bedrock or first confining unit: ~72 '
[13c] Proposed decontamination location: On site	[13d] Estimated depth to groundwater: ~?'
[13e] Proposed disposal facility for contaminated water and soils: **None proposed**	[13f] Source of clean drilling/decon water: To be determined after meeting/site visit

[13g] Proposed Well Number	[13h] Proposed Depth	[13i] Proposed Diameter	[13j] Construction and Completion
Six; exact location and number to be determined after planning meeting and site visit	To groundwater	NA	N/A. Use screen sampler. Backfill with grout.

[13k] Attach a map showing proposed drilling locations: (combine with other maps where appropriate)

[14] PROPERTY OWNERS			
[14a] Name:	[14b] Address:	[14c] Phone Number:	[14d] LUA?
Johnnie Perry	4172-A US Hwy 117 South Alternate	919-734-8455	Yes
Ricky Young	4172 US Hwy 117 South Alternate	919-631-7979	No

[14e] Attach a map identifying property owners. *(combine with other maps where appropriate)*

REQUEST FOR INVESTIGATION

[15] HEALTH AND SAFETY INFORMATION (please provide only site-specific information)

[15a] Chemical exposure potential (on-site chemical storage, drums, pesticides, fuel tanks, etc.):

None

[15b] Type of Contamination Expected (list substances or compounds, if known):

Petroleum constituents, particulary MtBE (detected at concentrations below the 2L standard).

[15c] Site Specific Issues or Concerns (access, noise, general hazards, utilities, traffic, etc.):

To be determined after planning meeting and site visit.

[15d] Biological exposure potential (on-site poisonous plants and animals, other wild animals, etc.):

To be determined after planning meeting and site visit.

[15e] Required safety equipment: Modified Level D

- ☐ Hard hat
- ☐ Steel toe boots
- ☐ Hearing Protection
- ☐ Gloves __nitrile__
- ☐ PID/OVA
- ☐ Other (specify)

[15f] Physical/electrical/radiological exposure potential (on-site power lines, open ditches or trenches, water bodies, heavy traffic, farm machinery, temperature extremes, etc.):

To be determined after planning meeting and site visit.

[15g] Name and address of nearest hospital:

Wayne Memorial Hospital
2700 Wayne Memorial Drive
Goldsboro, NC 27534

Map attached

[15h] Emergency facility phone number: emergencies 911, non-emergencies (919) 736-1110
911 service available: yes

[15i] Attach a map indicating location and route to nearest hospital: *see site location map*

REQUEST FOR INVESTIGATION

[15] Health and Safety Plan Site Meeting Sign-Off Sheet	
Signature	**Date**

REQUEST FOR INVESTIGATION

[16] ADDITIONAL INFORMATION (Site description, site specific issues, narrative, etc.)

REQUEST FOR INVESTIGATION (RFI)

Check List for Request for Investigation Submission:
Verify that the RFI package contains the following applicable items. Incomplete submittals will cause delays in processing of RFI package.

Forms:

- ☑ Transmittal memo from/through Regional Supervisor to Central Office requesting the investigation
- ☑ Completed Request for Investigation form and checklist
- ☑ Pollution Incident Reporting Form (PIRF)
- ☐ Site Health and Safety Planning Form
- ☐ Signed Land Use Agreements (LUA) for properties to be included in the investigation
- ☐ Documentation of RFI Planning Meeting (brief summary, time, date, personnel present, etc.)

Division of Responsibility:

Develop Scope of Work	☐ Region	☐ Central
Secure Land Use Agreements	☐ Region	☐ Central
Coordinate with Driller	☐ Region	☐ Central
Perform Preliminary Site Visits	☐ Region	☐ Central
GPS and/or Survey	☐ Region	☐ Central
Evaluate Data	☐ Region	☐ Central
Perform Draft Project Report	☐ Region	☐ Central
Review Project Report	☐ Region	☐ Central
Finalize Project Report	☐ Region	☐ Central

Maps*:

- ☑ Local site/area map showing affected properties with owner's name(s), location of existing well(s), and proposed drilling locations (county tax map or an aerial photo are preferred, although a neatly hand drawn map is acceptable).
- ☐ Include written directions to site from a nearby well known landmark or primary road intersection.
- ☐ Regional map showing directions to site from main highway or other major artery (please use one of the following: USGS 7.5' quad, DOT county road map, NC Atlas & Gazetteer 1:150,000 scale map)
- ☐ Directions, phone number, and location map for the nearest hospital

* Combine maps where possible and appropriate

Supporting Information :

- ☐ Laboratory report(s) of previous sampling and testing
- ☐ Well construction records of existing monitoring wells
- ☐ Well construction data for affected private supply wells (type, installation date, total depth, casing depth, screened interval(s), well logs, etc.)
- ☐ References to existing investigations, reports, etc,
- ☐ Other supporting information available in the Regional Office but not included in this RFI package (please list): _____

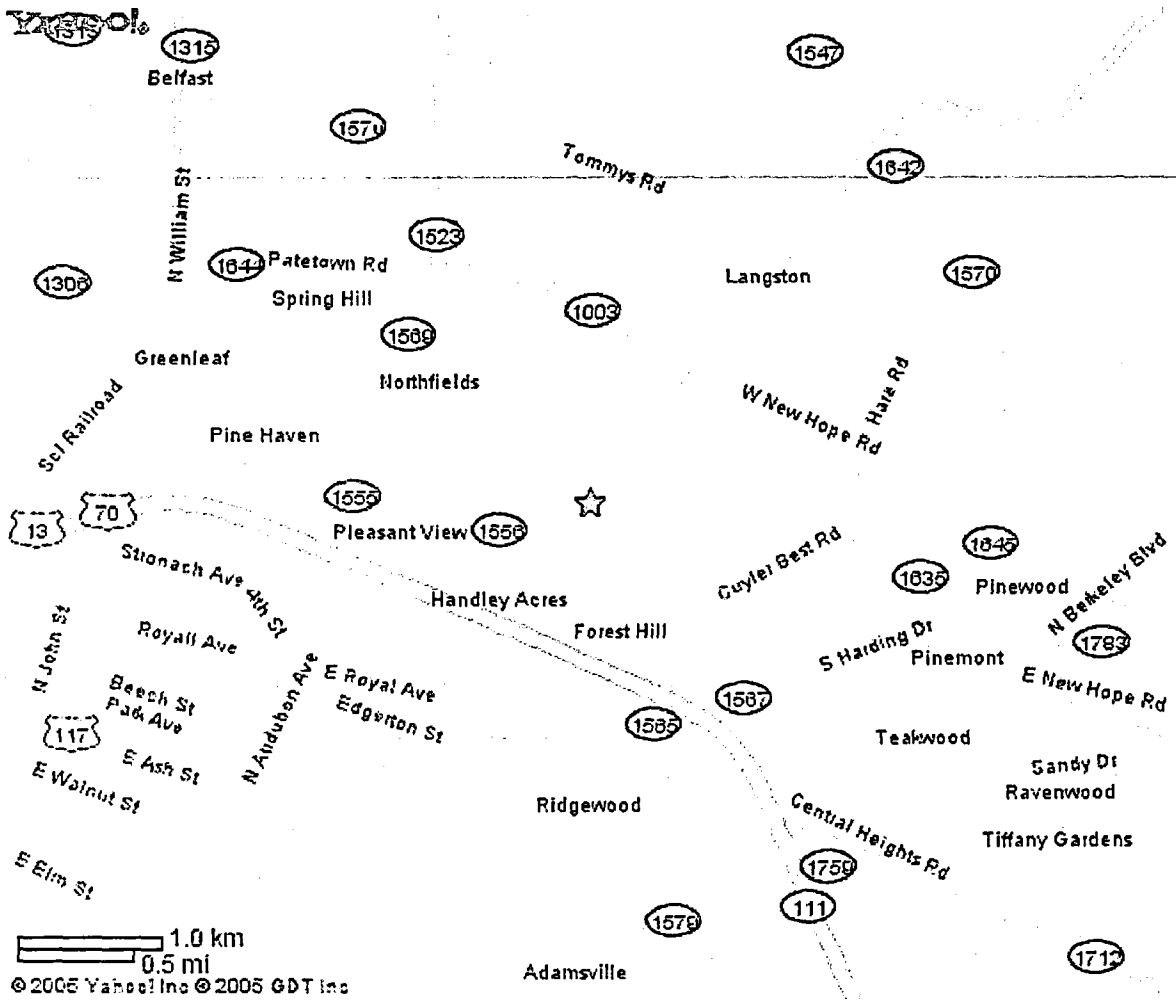
Signature of person verifying review and completeness of attached RFI package:

Signature  Date 2-16-2006

Yahoo! Maps - Goldsboro, NC 27534-9494

« Back to Map

☆ **Wayne Memorial Hospital, 2700 Wayne Memorial Dr Goldsboro, NC 27534-949**
(919) 736-1110



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

Please return to: Carrie Stone
DWQ-Washington Regional Office
943 Washington Square Mall
Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification: **Perry Property**
Parcel #2585680064 & #2585670878
4172-A US Hwy 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.

2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.

3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.

4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.

5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.

6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.

7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,

Signature(s): Johnnie Perry Jr Jeanette Perry Date: 11/25/05

Print Name(s): Johnnie Perry Jr Jeanette Perry Phone Number: 919.734.8455

Address: 4172 A US 117 South Alt.
Dudley NC 28333

Incident Management Data Entry Record

Incident Information

2/16/2006 11:07:22AM

Incident Number	87538	Site Priority	
Incident Name	Perry Residence/Young's Auto		
Incident Address	4172 US Hwy 117 Alternate S.		
Incident City/Town	Dudley	Incident Zip	28333
County	Wayne		
RO Contact	Rose Ballance		

Responsible Party Information

RP Contact	Young, Ricky		
RP Company	Young's Auto Center & Salvage		
RP Address	4172 US 117 Alternate S.		
RP City	Dudley	RP State	North Carolina
RP Zip	28333		
RP Phone	9196317979		
Ownership Type	Private		
Operation Type	Unknown		

Contamination Information

GW Contamination (Y/N)

Sources	Type	Wells	
Unknown	Other Petroleum Products	Private Well	1
		Private NonDrinking	
		Public Well	

Status Information

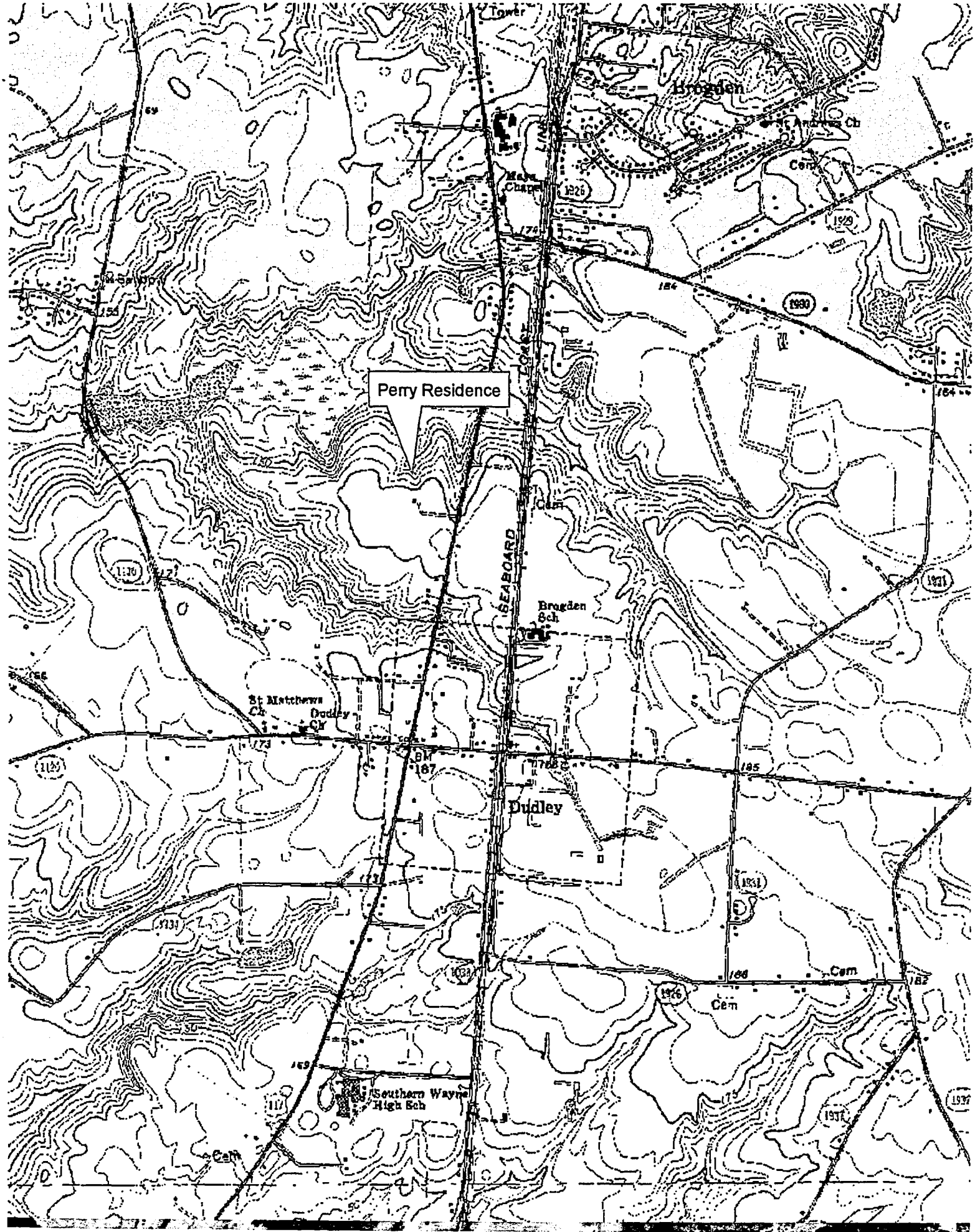
Report/Discovery Date	09/27/2005	Phase	Discovery
Notice Date		Next Due Date	
Next Action			
CSA Received		CAP Type	None
CSA Approved		CAP Received	
CSA Reviewed		CAP Reviewed	
Last Modified	02/16/2006	CAP Approved	
		CAP Implemented	

Locational Information

Latitude (DMS)		Longitude (DMS)	
Latitude (DD)		Longitude (DD)	
Lat/Long QC		Quadrangle	

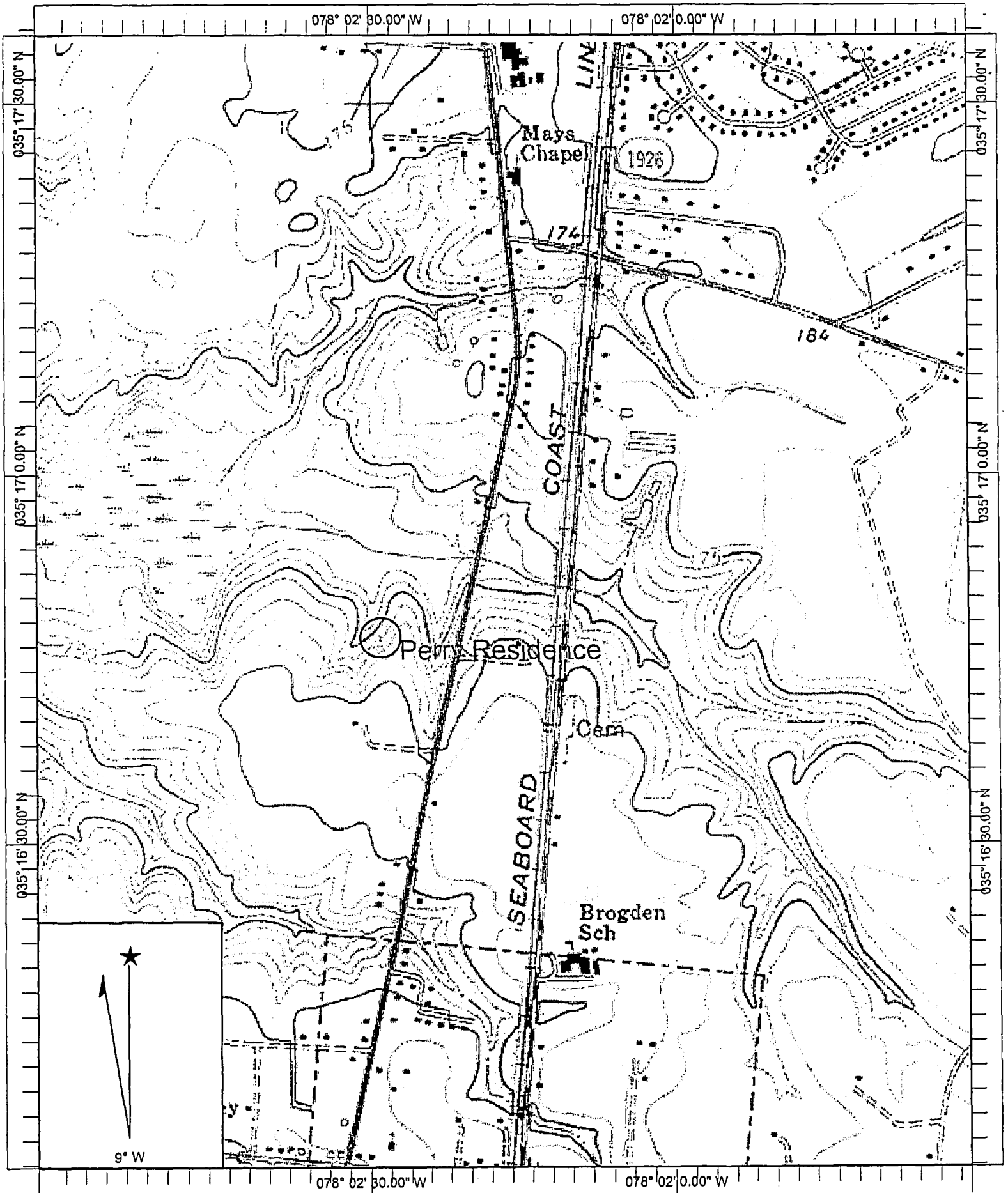
Comments

Wayne County Env. Health Dept. sampled water supply well at a residence owned by Mr. Johnnie Perry. Sample results indicated presence of MTBE at levels of 0.8 ppm. Aquifer Protection Section staff was notified and resampled on 9/27/2005. Results were confirmed. Requesting Field Investigation Unit assistance in determining RP. Perry Residence is located in the middle of approx. 90 acres of property owned by Ricky Young used for Young's Auto Center & Salvage.



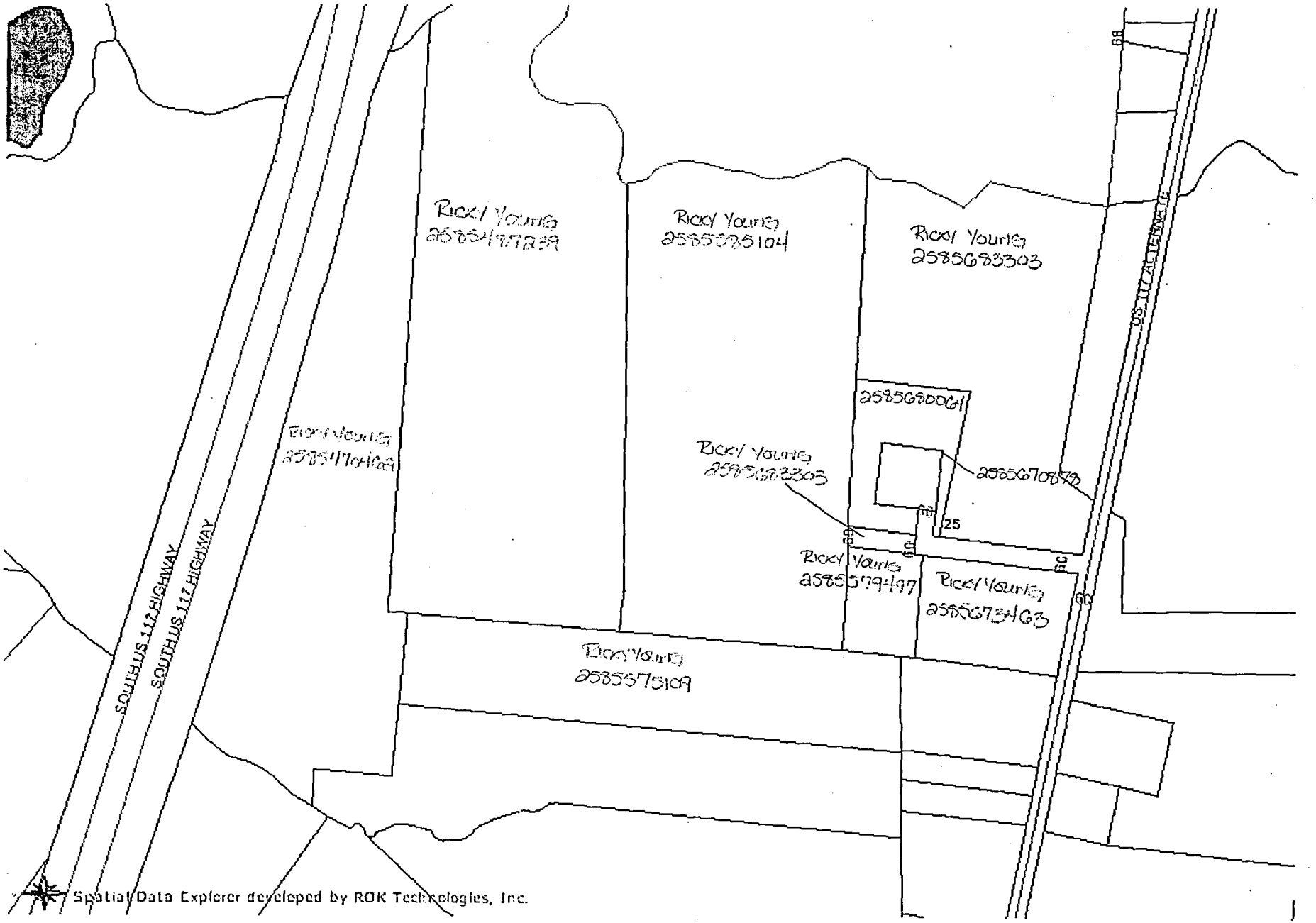
SW Goldsboro Quadrangle

From Goldsboro, take US Hwy 117 south ≈ 9 miles



Name: SOUTHWEST GOLDSBORO
Date: 11/4/2005
Scale: 1 inch equals 1000 feet

Location: 035° 16' 49.6" N 078° 02' 16.9" W
Caption: Perry Residence
4172 Us hwy 117 Alt. S.
Dudley, NC
Gates County


Ricky Young
2585479729
Ricky Young
2585585104
Ricky Young
2585683303
Ricky Young
2585478468
Ricky Young
2585683303
2585680064
2585670859
25
Ricky Young
2585579497
Ricky Young
2585573463
Ricky Young
2585575109
SOUTH US 117 HIGHWAY
SOUTH US 117 HIGHWAY
US 117 ALTERNATE
Spatial Data Explorer developed by ROK Technologies, Inc.

● Proposed Sample Location (estimated). Exact locations to be determined after planning meeting and on site visit.

To: David May

N.C. Department of Health and Human Services
Division of Public Health
State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington St., Raleigh, NC 27611-8047

PETROLEUM PRODUCTS

Environmental Sciences Analysis Report

Please Read instruction sheet.
VOA vials contain 1:1 HCL

Name of Owner, Patient Or Supply: Delaney Perry

Telephone # (919) 734-8455

Address: 4172 A US 117 S Alt

County: Wayne

Dudley N.C. Zip: 28333

Report to: Kevin Whitley

Telephone # (919) 731-1174

Address:

Collected By: K. Whitley

Telephone # (919) 731-1174

Wayne County Health Department
301 North Herman Street, Box CC
Goldsboro, North Carolina 27530

Date Collected: 8/25/09

Analysis Desired:

Laboratory Number	Sample #	Sample Description or Remarks	Results In
052721		SEE ATTACHED SHEET(S)	
052722		TRIP BLANK (DATE: 8-9-05) SEE ATTACHED SHEET(S)	

Date Received: AUG 26 2005 MGP

Date Extracted: 8-30-05

Date Reported: SEP 09 2005

Date Analyzed: GC/FID 9-3005 PT/GC/MS 9-8-05 MG

Reported By: Dale A. Dulington

DHHS Form 2364
Laboratory (Rev.06/99)
F_anlrpt

252-975-3716

DIVISION OF HEALTH AND HUMAN SERVICES
STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by
Gas Chromatography/Mass Spectrometry

LABORATORY # 052721

COMPOUND	MDL	µg/L	COMPOUND	MDL	µg/L
Chloromethane	2.0 µg/L	U	1,2-Dichloropropane	0.5 µg/L	U
Vinyl Chloride	2.0 µg/L		Dibromomethane	0.5 µg/L	
Bromomethane	2.0 µg/L		Bromodichloromethane	0.5 µg/L	
Chloroethane	2.0 µg/L		cis-1,3-Dichloropropene	0.5 µg/L	
Trichlorofluoromethane	2.0 µg/L		4-Methyl-2-Pentanone	0.5 µg/L	
1,1-Dichloroethene	0.5 µg/L		Toluene	0.5 µg/L	
Acetone	80 ug/L		trans-1,3-Dichloropropene	0.5 µg/L	
Iodomethane	0.5 µg/L		1,1,2-Trichloroethane	0.5 µg/L	
Carbon Disulfide	0.5 µg/L		Tetrachloroethene	0.5 µg/L	
Methylene Chloride	0.5 µg/L		2-Hexanone	0.5 µg/L	
Acrylonitrile	0.5 µg/L		Dibromochloromethane	0.5 µg/L	
trans-1,2-Dichloroethene	0.5 µg/L	↓	Ethylene Dibromide	0.5 µg/L	
Methyl-t-Butyl-Ether	0.5 µg/L	0.8	Chlorobenzene	0.5 µg/L	
1,1-Dichloroethane	0.5 µg/L	U	1,1,1,2-Tetrachloroethane	0.5 µg/L	
Isopropyl Ether	0.5 µg/L		Ethyl Benzene	0.5 µg/L	
cis-1,2-Dichloroethene	0.5 µg/L		Xylenes	0.5 µg/L	
2-Butanone	2.0 µg/L		Styrene	0.5 µg/L	
Tetrahydrofuran	2.0 µg/L		Bromoform	0.5 µg/L	
Chloroform	0.5 µg/L		1,1,2,2-Tetrachloroethane	0.5 µg/L	
1,1,1-Trichloroethane	0.5 µg/L		1,2,3-Trichloropropane	0.5 µg/L	
Carbon Tetrachloride	0.5 µg/L		1,4-Dichlorobenzene	0.5 µg/L	
Benzene	0.5 µg/L		1,2-Dichlorobenzene	0.5 µg/L	
1,2-Dichloroethane	0.5 µg/L		1,2-Dibromo-3-Chloropropane	2.0 µg/L	↓
Trichloroethene	0.5 µg/L	↓			

race – detected, but less than MDL MDL=Minimum Detection Limit
- Possible lab contamination or background
- Estimated Value
- Actual value is known to be less than value given.
- Actual value is known to be greater than value given.
- Material was analyzed for but not detected. The number is the Minimum Detection Limit.
- Tentative identification.
- Sample diluted. MDLs do not apply.

DIVISION OF HEALTH AND HUMAN SERVICES
STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

Purgeable Organic Compounds by
Gas Chromatography/Mass Spectrometry

LABORATORY # 052722
TRIP BLANK

COMPOUND	MDL	µg/L	COMPOUND	MDL	µg/L
Chloromethane	2.0 µg/L	U	1,2-Dichloropropane	0.5 µg/L	U
Vinyl Chloride	2.0 µg/L		Dibromomethane	0.5 µg/L	↓
Bromomethane	2.0 µg/L		Bromodichloromethane	0.5 µg/L	0.5
Chloroethane	2.0 µg/L		cis-1,3-Dichloropropene	0.5 µg/L	U
Trichlorofluoromethane	2.0 µg/L		4-Methyl-2-Pentanone	0.5 µg/L	
1,1-Dichloroethene	0.5 µg/L		Toluene	0.5 µg/L	
Acetone	80 ug/l		trans-1,3-Dichloropropene	0.5 µg/L	
Iodomethane	0.5 µg/L		1,1,2-Trichloroethane	0.5 µg/L	
Carbon Disulfide	0.5 µg/L		Tetrachloroethene	0.5 µg/L	
Methylene Chloride	0.5 µg/L		2-Hexanone	0.5 µg/L	↓
Acrylonitrile	0.5 µg/L		Dibromochloromethane	0.5 µg/L	0.8
trans-1,2-Dichloroethene	0.5 µg/L		Ethylene Dibromide	0.5 µg/L	U
Methyl-t-Butyl-Ether	0.5 µg/L		Chlorobenzene	0.5 µg/L	
1,1-Dichloroethane	0.5 µg/L		1,1,1,2-Tetrachloroethane	0.5 µg/L	
Isopropyl Ether	0.5 µg/L		Ethyl Benzene	0.5 µg/L	
cis-1,2-Dichloroethene	0.5 µg/L		Xylenes	0.5 µg/L	
2-Butanone	2.0 µg/L		Styrene	0.5 µg/L	
Tetrahydrofuran	2.0 µg/L		Bromoform	0.5 µg/L	
Chloroform	0.5 µg/L		1,1,2,2-Tetrachloroethane	0.5 µg/L	
1,1,1-Trichloroethane	0.5 µg/L		1,2,3-Trichloropropane	0.5 µg/L	
Carbon Tetrachloride	0.5 µg/L		1,4-Dichlorobenzene	0.5 µg/L	
Benzene	0.5 µg/L		1,2-Dichlorobenzene	0.5 µg/L	
1,2-Dichloroethane	0.5 µg/L		1,2-Dibromo-3-Chloropropane	2.0 µg/L	↓
Trichloroethene	0.5 µg/L	↓			

Trace = detected, but less than MDL MDL=Minimum Detection Limit
B - Possible lab contamination or background
E - Estimated Value
L - Actual value is known to be less than value given.
H - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
J - Tentative Identification.
D - Sample diluted. MDLs do not apply.

TRIP BLANK (DATE: 8-9-05)
052722

a:\nancy.frm (3/01)

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	5G2372
Date Received :	9/28/2005
Time Received :	9:00 AM
Received By :	DS
QC	10/10/05
Released By :	JSW
Date reported :	10/6/2005

COUNTY : WAYNE
QUAD NO:

REPORT TO : WARO Regional Office
COLLECTOR(S) : C STONE
DATE: 9/27/2005
TIME: 10:30
PURPOSE: COMPLAINT

SAMPLE PRIORITY
[ ] ROUTINE [X] EMERGENCY

[ ] CHAIN OF CUSTODY

[W] SAMPLE TYPE

WS-1

Owner: PERRY RESIDENCE
Location or Site: 4172 US HWY 117S ALT
Description of sampling point: OUTSIDE SPIGOT (FRONT OF HOUSE)
Sampling Method: GRAB
Remarks: AFTER 15 MIN PUMP TIME

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbidity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	umhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	Formaldehyde	mg/L
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
X	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

RECEIVED
OCT 11 2005
WASHINGTON REGIONAL OFFICE
DWQ

5G2372

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

County WAYNE

Quad No _____ Serial No. _____

Lat. _____ Long. _____

SAMPLE TYPE	SAMPLE PRIORITY
☑ Water	☐ Routine
☐ Soil	☑ Emergency
☐ Other	
☐ Chain of Custody	

WS-1

Lab Number SG2372

Date Received 9/28/05 Time: 9:00

Rec'd By: DS From: Bus, Courier, Hand Del.,

Other: _____

Data Entry By: _____ Ck: _____

Date Reported: _____

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other: _____

Shipped by: Bus, Courier, Hand Del., Other: _____

Purpose:

Collector(s): C. STONE Date 9-27-05 Time 10:30 Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: (circle one)

Owner PERRY RESIDENCE

Location or Site 4172 US HWY 117 S ALT

Description of sampling point OUTSIDE SPIGOT (FRONT OF HOUSE)

Sampling Method GRAB (Pump, Gauge, etc.) Sample Interval AFTER 15 min PUMP TIME

Remarks _____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____

Field Analysis By: _____

LABORATORY ANALYSES

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/L
	Turbidity 70	NTU
	Residue, Suspended 530	mg/L
	pH 403	units
	Alkalinity to pH 4.5 410	mg/L
	Alkalinity to pH 8.3 415	mg/L
	Carbonate 445	mg/L
	Bicarbonate 440	mg/L
	Carbon dioxide 405	mg/L
	Chloride 940	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	CU
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: Total 900	mg/L
	Hardness (non-carb) 902	mg/L
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm
	Sulfate 945	mg/L
	Sulfide 745	mg/L
	Oil and Grease	mg/L
	NH_3 as N 610	mg/L
	TKN as N 625	mg/L
	$NO_2 + NO_3$ as N 630	mg/L
	P: Total as P 665	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46559	ug/L
	Cu-Copper 46562	ug/L
	Fe-Iron 46563	ug/L
	Hg-Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg-Magnesium 46554	mg/L
	Mn-Manganese 46565	ug/L
	Na-Sodium 46556	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	PCBs
X	Semivolatile Organics
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

SV:V

LAB USE ONLY
Temperature on arrival: 1.0

Lab Comments _____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

ENR/DWQ LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 5G2372

REPORTED BY VA/A
CHECKED BY AT
REVIEWED BY

SUPERVISOR RSK
DATE 5/30/05

ENTERED BY JSW
DATE 10/3/05

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

CAS#	VOA TARGET COMPOUND	PQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	PQL ug/L	DETECTED ug/L
75-71-8	Dichlorodifluoromethane	0.25	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	0.50	U
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U	95-49-8	2-Chlorotoluene	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
594-20-7	2,2-Dichloropropane	0.25	U	96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
74-97-5	Bromochloromethane	0.25	U	87-61-6	1,2,3-Trichlorobenzene	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	0.80 #, J2
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	U
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	U
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	U
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	U
74-95-3	Dibromomethane	0.25	U	98-82-8	Isopropylbenzene	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	103-65-1	n-Propylbenzene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	U
127-18-4	Tetrachloroethene	0.25	U	95-63-6	1,2,4-Trimethylbenzene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	U
124-48-1	Dibromochloromethane	0.25	U	99-87-6	p-isopropyltoluene	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U	104-51-8	n-Butylbenzene	0.25	U
108-90-7	Chlorobenzene	0.25	U	91-20-3	Naphthalene	0.25	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.20	X

PQL Practical Quantitation Limit- Subject to change due to instrument sensitivity
N- Tentatively Identified, not confirmed
J- Estimated Value
U- Samples analyzed for this compound but not detected
X- Sample not analyzed for this compound
N3- Estimated concentration is <PQL and >MDL
GC/MS Analysis performed

Other purgeables detected (up to 10 highest peaks)	Detected ug/L

COMMENTS:

ENR/DWQ LABORATORY
SEMIVOLATILE ANALYTICAL REPORT

LAB NO. 5G2372

REPORTED BY PC
CHECKED BY
REVIEWED BY

SUPERVISOR REK
DATE 10/6/05

ENTERED BY JSW
DATE 10/6/05

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

CAS#	SEMIVOLATILES TARGET COMPOUND	PQL ug/L	DETECTED ug/L		CAS#	SEMIVOLATILES TARGET COMPOUND	PQL ug/L	DETECTED ug/L	
62-53-3	ANILINE	10	U		606-20-2	2,6-DINITROTOLUENE	10	U	
108-95-2	PHENOL	10	U		99-09-2	3-NITROANILINE	50	U	
111-44-4	BIS(2-CHLOROETHYL) ETHER	10	U		83-32-9	ACENAPHTHENE	10	U	
95-57-8	2-CHLOROPHENOL	10	U		51-28-5	2,4-DINITRO PHENOL	50 J2	U	
541-73-1	1,3-DICHLOROBENZENE	10	U		100-02-7	4-NITRO PHENOL	50	U	
106-46-7	1,4-DICHLOROBENZENE	10	U		132-64-9	DIBENZOFURAN	10	U	
100-51-6	BENZYL ALCOHOL	20	U		121-14-2	2,4-DINITROTOLUENE	10	U	
95-50-1	1,2-DICHLOROBENZENE	10	U		84-66-2	DIETHYL PHTHALATE	10	U	
95-48-7	2-METHYL PHENOL	10	U		7005-72-3	4-CHLOROPHENYL PHENYL ETHE	10	U	
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	10	U		86-73-7	FLUORENE	10	U	
106-44-5	4-METHYL PHENOL	10	U		100-01-6	4-NITROANILINE	50	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10	U		534-52-1	4,6-DINITRO-2-METHYL PHENOL	50	U	
67-72-1	HEXACHLOROETHANE	10	U		86-30-6	N-NITROSODIPHENYLAMINE	10	U	
98-95-3	NITROBENZENE	10	U		101-55-3	4-BROMOPHENYL PHENYL ETHEI	10	U	
78-59-1	ISOPHORONE	10	U		118-74-1	HEXACHLOROBENZENE	10	U	
88-75-5	2-NITRO PHENOL	10	U		87-86-5	PENTACHLORO PHENOL	50	U	
105-67-9	2,4-DIMETHYL PHENOL	10	U		85-01-8	PHENANTHRENE	10	U	
65-85-0	BENZOIC ACID	50 J2	U		120-12-7	ANTHRACENE	10	U	
111-91-1	BIS(2-CHLOROETHOXY) METHANE	10	U		84-74-2	DI-N-BUTYL PHTHALATE	10	U	
120-83-2	2,4-DICHLORO PHENOL	10	U		206-44-0	FLUORANTHENE	10	U	
120-82-1	1,2,4-TRICHLOROBENZENE	10	U		129-00-0	PYRENE	10	U	
91-20-3	NAPHTHALENE	10	U		85-68-7	BUTYLBENZYL PHTHALATE	10	U	
106-47-8	4-CHLOROANILINE	20	U		91-94-1	3,3'-DICHLOROBENZIDINE	20 J2	U	
87-68-3	HEXACHLOROBUTADIENE	10	U		56-55-3	BENZO(A)ANTHRACENE	10	U	
59-50-7	4-CHLORO-3-METHYL PHENOL	20	U		218-01-9	CHRYSENE	10	U	
91-57-6	2-METHYL NAPHTHALENE	10	U		117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	10	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	10	U		117-84-0	DI-N-OCTYL PHTHALATE	10	U	
88-06-2	2,4,6-TRICHLORO PHENOL	10	U		205-99-2	BENZO(B)FLUORANTHENE	10	U	
95-95-4	2,4,5-TRICHLORO PHENOL	10	U		207-08-9	BENZO(K)FLUORANTHENE	10	U	
91-58-7	2-CHLORO NAPHTHALENE	10	U		50-32-8	BENZO(A)PYRENE	10	U	
88-74-4	2-NITROANILINE	50	U		193-39-5	INDENO(1,2,3-CD)PYRENE	10	U	
131-11-3	DIMETHYL PHTHALATE	10	U		53-70-3	DIBENZO(A,H)ANTHRACENE	10	U	
208-96-8	ACENAPHTHYLENE	10	U		191-24-2	BENZO(G,H,I)PERYLENE	10	U	

SEMIVOLATILE ORGANICS REPORT - DWQ LAB PAGE 2

LAB NO. 5G2372

Other Semi-Volatiles compounds detected (up to 30 highest peaks)	Detected ug/L
No base/neutral or acid extractable organic compounds detected by gc/ms.	

PQL- Practical Quantitation Limit- Subject to change due to instrument sensitivity

U- Samples analyzed for this compound but not detected

J- Estimated value

J2- The reported value failed to meet the established quality control criteria for either precision or accuracy.

N1- The component has been tentatively identified based on mass spectral library search and has an estimated value.

N3- Estimated concentration less than the laboratory PQL limit and greater than the laboratory method detection limit.

A- Value reported is the average of two or more determinations.

P- Elevated PQL due to matrix interfernece and/or sample dilution.

COMMENTS:

DIVISION OF WATER QUALITY
Aquifer Protection Section
November 14, 2005

Mr. Johnnie Perry
4172 A US Highway 117 Alternate South
Dudley, North Carolina 28333

RE: Site Access Agreement
4172-A US Hwy 117 Alternate South.
Dudley, Wayne County, North Carolina

Dear Mr. and Mrs. Perry:

The Washington Regional Office Aquifer Protection Section received the Groundwater Sampling Results Notification Report for the above referenced site on dated October 11, 2005. The report indicates that methyl-tert-butyl ether (MTBE) was detected in small amounts in the water supply well at your residence at a concentration below the 15A NCAC 2L groundwater standard of 0.2 milligrams per liter (mg/l).

In response to confirmed contamination of a potential water supply aquifer, this office is conducting a groundwater quality investigation to determine the source and/or extent of contamination. Under the provisions of G.S. 143-215.3, the Groundwater Section has been authorized to conduct such investigations. During the investigative process, it will be necessary that we perform a subsurface assessment and collect groundwater samples from your property. Your cooperation and assistance in this matter would be greatly appreciated.

With your permission, the Field Investigations Unit of the Aquifer Protection Section will perform a preliminary site investigation, in which groundwater samples will be collected from the surficial and/or confined aquifer. Samples will likely be procured by a geoprobe drilling machine by constructing a temporary wells. Immediately following sample collection, the temporary wells will be abandoned by removing all screen and casing, plugging the boring with bentonite, and backfilling to existing grade with soil cuttings and sand. Please sign and return the attached agreement form signifying that this office has your permission to proceed with our investigation on your property.

Additionally, pending the results of the preliminary investigation, this office may conduct a hydrogeological assessment of confined aquifers in the area around, and including, your property. This portion of the characterization may require the installation of permanent wells. If further investigation is required of confined aquifers, a separate request for site access will be submitted to you at a later date.

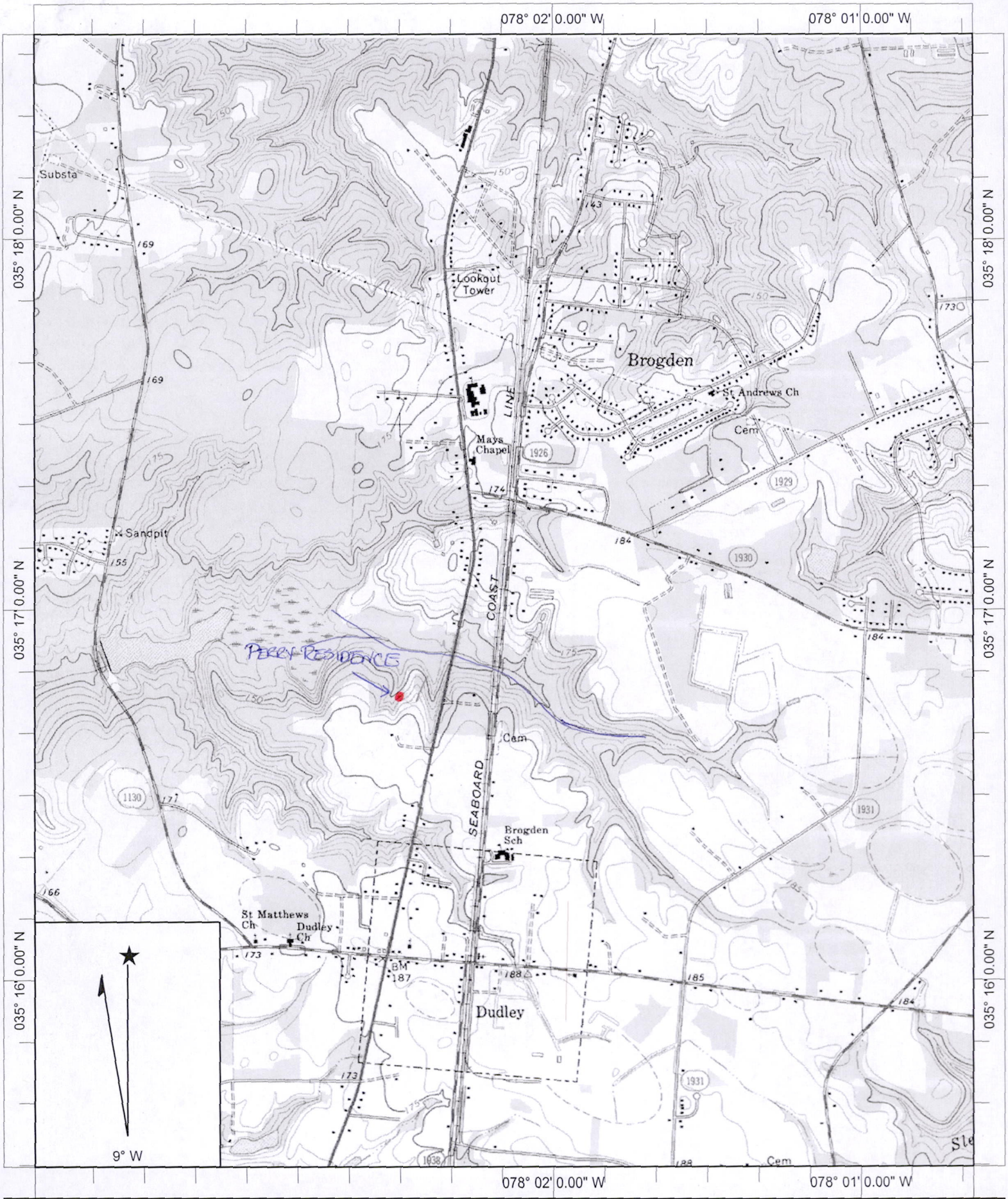
Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May, L.G.
Aquifer Protection Supervisor
Washington Regional Office

cc: WaRO

DM/cs



Name: SOUTHWEST GOLDSBORO
Date: 11/4/2005
Scale: 1 inch equals 2000 feet

Location: 035° 17' 01.4" N 078° 02' 09.6" W
Caption: Perry Residence
4172 US Hwy 117 Alt. S.
Dudley, NC
Gates County

WARO

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
Aquifer Protection Section
November 14, 2005

Mr. Johnnie Perry
4172 A US Highway 117 Alternate South
Dudley, North Carolina 28333

RE: Site Access Agreement
4172-A US Hwy 117 Alternate South.
Dudley, Wayne County, North Carolina

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North Carolina Division of Water Quality
943 Washington Square Mall
Washington, NC 27889

Internet: h2o.enr.state.nc.us
Phone: 252-946-6481
FAX 252-975-3716

Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May

David May, L.G.
Aquifer Protection Supervisor
Washington Regional Office

cc: WaRO

DM/cs

Please return to: Carrie Stone
DWQ-Washington Regional Office
943 Washington Square Mall
Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification: **Perry Property**
Parcel #2585680064 & #2585670878
4172-A US Hwy 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

I am (We are) granting permission with the understanding that:

1. The Aquifer Protection Section of the Department's Division of Water Quality shall conduct the investigation.

2. The costs of construction and maintenance of monitoring wells at the site and access shall be borne by the Department. The Department shall protect and prevent damage to the surrounding lands.

3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.

4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.

5. Any claims that may arise against the Department shall be governed by Article 31 of Chapter 143 of the North Carolina General Statutes, Tort Claims Against State Departments and Agencies, and as otherwise provided by law.

6. The information derived from the investigation shall be made available to the owner on request and is a public record, in accordance with G.S. 132-1 et seq.

7. The activities carried out by the Department are for the primary benefit of the Department and of the State of North Carolina and any benefits accruing to the owner are incidental. The Department is not and shall not be construed to be an agent, employee, or contractor of the owner of the land.

I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

Sincerely,

Signature(s): _____ Date: _____

Print Name(s): _____ Phone Number: _____

Address: _____

_____


2585585104
2585683303
2585680064
2585670878
25
2585579497
2585673463
SOUTH US 117 HIGHWAY
SOUTH US 117 HIGHWAY
Spatial Data Explorer developed by ROK Technologies, Inc.

WARO

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
Aquifer Protection Section
November 14, 2005

Mr. Ricky Young
4172 US Highway 117 Alternate South
Dudley, North Carolina 28333

RE: Site Access Agreement
4172 US Hwy 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Mr. Perry:

The Washington Regional Office Aquifer Protection Section received the Groundwater Sampling Results Notification Report for the above referenced site on dated October 11, 2005. The report indicates that methyl-tert-butyl ether (MTBE) was detected in a nearby water supply well at concentrations below the 15A NCAC 2L groundwater standard of 0.2 milligrams per liter (mg/l). Low concentrations, even though below 2L standards, could indicate a larger problem in the surrounding area.

In response to confirmed contamination of a potential water supply aquifer, this office is conducting a groundwater quality investigation to determine the source and/or extent of contamination. Under the provisions of G.S. 143-215.3, the Aquifer Protection Section has been authorized to conduct such investigations. During the investigative process, it will be necessary that we perform a subsurface assessment and collect groundwater samples from your property. Your cooperation and assistance in this matter would be greatly appreciated.

With your permission, the Field Investigations Unit of the Aquifer Protection Section will perform a preliminary site investigation, in which groundwater samples will be collected from the surficial and/or confined aquifer. Samples will likely be procured by a geoprobe drilling machine by constructing a temporary wells. Immediately following sample collection, the temporary wells will be abandoned by removing all screen and casing, plugging the boring with bentonite, and backfilling to existing grade with soil cuttings and sand. Please sign and return the attached agreement form signifying that this office has your permission to proceed with our investigation on your property.

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North Carolina Division of Water Quality
943 Washington Square Mall
Washington, NC 27889

Internet: h2o.enr.state.nc.us
Phone: 252-946-6481
FAX 252-975-3716

Should you have any questions or require additional information concerning this matter, please contact either me or Carrie Stone at (252) 948-3847.

Sincerely,

David May, L.G.
Aquifer Protection Supervisor
Washington Regional Office

cc: ✓WaRO

DM/cs

Please return to: Carrie Stone
DWQ-Washington Regional Office
943 Washington Square Mall
Washington, NC 27889

SUBJECT: Agreement for the Use of a Site for a Groundwater Investigation.

Site Identification: **Young's Auto Center & Salvage**
Parcel #2585683303 & #2585585104
#2585579497 & #2585673463
4172 US Hwy 117 Alternate South
Dudley, Wayne County, North Carolina

Dear Ms. Stone:

I am (We are) the owner(s) of the parcel of property as described herein and do hereby grant permission for the Department of Environment and Natural Resources (referred to as the Department) to enter upon the groundwaters under the authority of G.S. 143-215.3(a)2, including access to and permission to install monitoring wells to collect samples in association with the above listed property.

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3. Unless otherwise agreed, the Department shall have access to the site by the shortest feasible route to the nearest public road. The Department may enter on the land at reasonable times and have full right of access during the period of investigation.

4. At the end of the investigation, unless otherwise provided for by prior written agreement, the Department shall remove from the site all structures placed or erected by it and shall permanently abandon all wells constructed by it.

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I/We agree not to interfere with, remove, or in any way damage the Department's wells and equipment during the investigation.

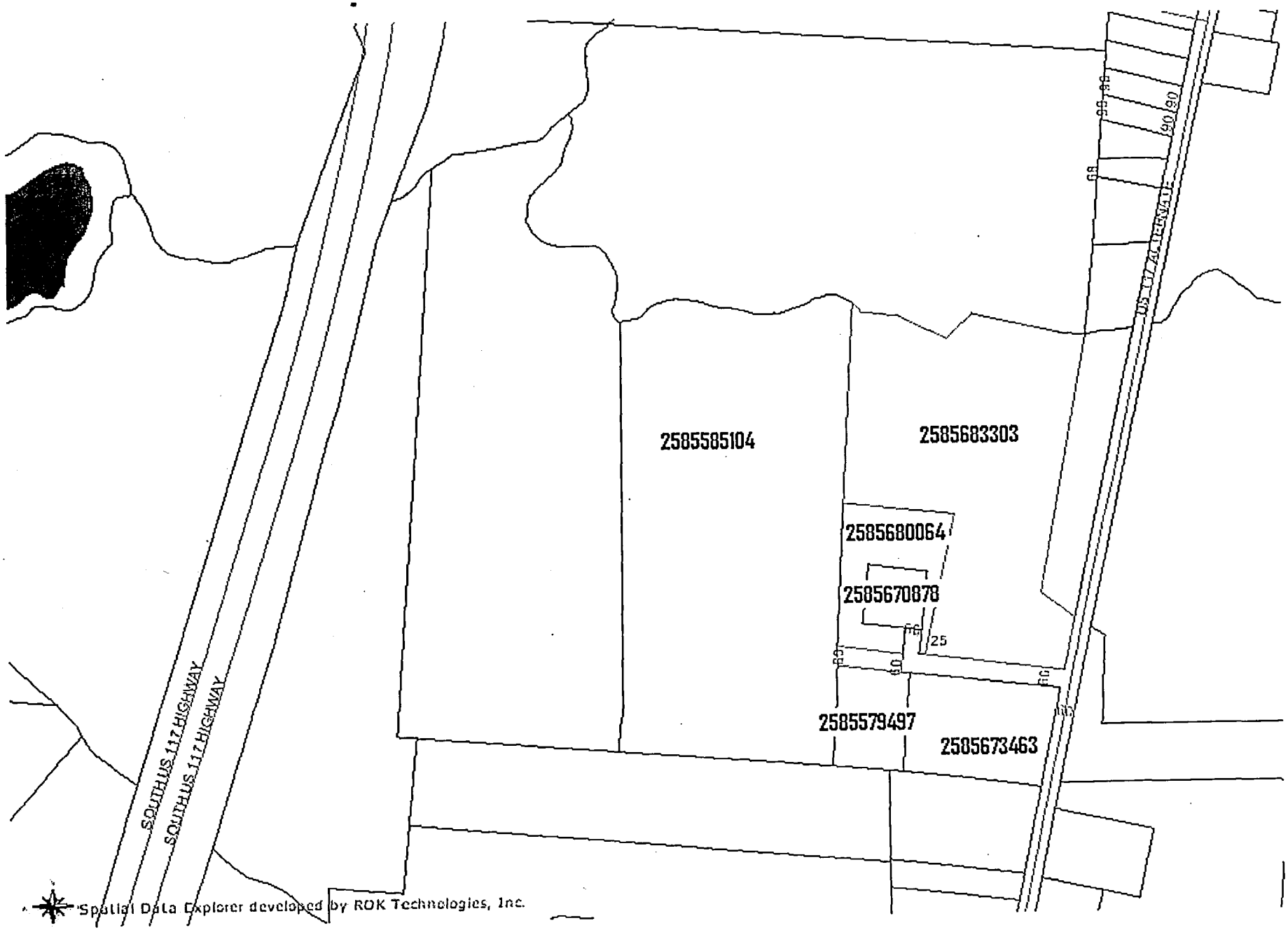
Sincerely,

Signature(s): _____ Date: _____

Print Name(s): _____ Phone Number: _____

Address: _____

_____


2585585104
2585683303
2585680064
2585670878
2585579497
2585673463
SOUTHUS 117 HIGHWAY
SOUTHUS 117 HIGHWAY
US 117 ALTERNATE
25
Spatial Data Explorer developed by ROK Technologies, Inc.


09/27/2005

Subject: RE: Citizen Complaint (Dudley, NC)
From: "Evan Kane" <evan.kane@ncmail.net>
Date: Mon, 26 Sep 2005 16:13:03 -0400
To: <Mann.Bill@epamail.epa.gov>
CC: <Parker.David@epamail.epa.gov>, <Ellington.Natalie@epamail.epa.gov>, <Marsh.Nancy@epamail.epa.gov>, <Olive.Robert@epamail.epa.gov>, "David May" <david.may@ncmail.net>

Bill,
Thanks for the information. DENR is already responding to the incident. Our Washington (not Wilmington) Regional Office received a call from Mr. Whitley of the Wayne County Health Department on 9/14/2005 and has scheduled an inspection for next week, during which they will look for potential contaminant sources, re-sample Mr. Perry's well, and look for (and possibly sample) other water supply wells in the area. I've attached a copy of the complaint report from our database, which provides a basic synopsis and chronology so far.

David May is the Aquifer Protection supervisor of the Washington Regional Office and is receiving a copy of this email. I'll keep you informed of future developments with this site.

Evan

-----Original Message-----
From: Mann.Bill@epamail.epa.gov [mailto:Mann.Bill@epamail.epa.gov]
Sent: Monday, September 26, 2005 2:11 PM
To: evan.kane@ncmail.net
Cc: Parker.David@epamail.epa.gov; Ellington.Natalie@epamail.epa.gov; Marsh.Nancy@epamail.epa.gov; Olive.Robert@epamail.epa.gov
Subject: Fw: Citizen Complaint

Evan,

John Mason sent this to the UIC section. Since it deals with NC I thought you needed to know about it. I've taken the liberty of forwarding his message to the EPA Water Programs Enforcement Section. Wanted to give then a heads up on the call.

Bill Mann
GW & UIC Section
Ground Water/Drinking Water Branch
Water Management Division.

John Mason
----- Forwarded by Bill Mann/R4/USEPA/US on 09/26/2005 02:06 PM -----

JohnK Mason/R4/USEPA/US		To
	Natalie Ellington/R4/USEPA/US@EPA	
09/26/2005 12:32 PM		cc
	Bill Mann/R4/USEPA/US@EPA, Robert Olive/R4/USEPA/US@EPA	
		Subject
	Citizen Complaint	

On Friday afternoon, 9/23/05, I received a call from the following individual who provided the information recorded below.

Caller: Johnny Perry, Dudley, N.C. 919-738-1144

Mr. Perry said he owns property in/near Dudley, N.C. that is nearly surrounded by an auto salvage company. He said he installed a private drinking water well on his property in 1979 and the auto salvage business began operation in 1980. The business has a web site @ www.youngsautocenter.com. Since its beginning, the size of the salvage business has multiplied many times and is currently a very large operation. Per Mr. Perry, the salvage company operates a service bay with a floor drain which discharges various automotive fluids, e.g., used motor oil, transmission fluid, antifreeze, etc. directly into the ground.

Mr. Perry was concerned about this well and the well was sampled on 8/26/05 by Mr. Keith Whitley, Wayne County Department of Environmental Health. The sample was shipped to the NCDENR State Lab for analysis. Mr. Perry had a copy of the analytical report and tried to read the results to me but had trouble pronouncing the words. They sounded like an assortment of synthetic organic chemicals. He said he would fax the report to me, but I have not received it yet. He also said Mr. Whitley had referred him to a man in the DENR Regional Office in Wilmington. He couldn't recall his name and couldn't immediately find anything he had written it down on.

Mr. Perry expressed concern over DENR's lack of a response, to date. He is convinced that the salvage business is the source of the contamination in his well.

I told Mr. Perry I would forward his complaint to the appropriate office in EPA. I also explained that his lack of recent information from DENR relative to its response doesn't necessarily mean that an appropriate response isn't underway.

John Mason, Chief
Underground Storage Tank Section
U.S. EPA, R4
Phone: 404-562-9441 Fax: 404-562-9439

dudley nc complaint.pdf	**Content-Type:** application/pdf **Content-Encoding:** base64

Perry Residence

Subject: Re: Perry/Young Property Incident #87189
From: Rose Ballance <Rose.Ballance@ncmail.net>
Date: Mon, 25 Feb 2008 16:40:40 -0500
To: John Walch <John.Walch@ncmail.net>

jOHN,

I just found another folder...with the draft report inside. I'll send everything to you. Sorry

Rose

John Walch wrote:
> Okay. Thanks.
>
> Rose Ballance wrote:
> > John,
> >
> > I have never received a copy of the draft report. Mike Cunningham would hopefully be able to help you.
> >
> > Rose
> >
> > John Walch wrote:
> > > Rose-
> > >
> > > I have received the file that you forwarded to our office on 2/19/08 for the Perry/Young Property in Dudley, Wayne Co. Your cover memo references a "draft report" that was forwarded to our office by Mike Cunningham of the DWQ. I have been unable to locate this report in the information forwarded to our Branch by DWQ since the reorganization. Do you have a copy of this report that you could send me?
> > >
> > > Thanks
> > > John Walch

Incident Name: JOHNNIE PERRY PROPERTY Region/County: WARO / WAYNE COUNTY

Groundwater Incident File #: 37538 Ranking Performed by: C. STONE

Date: 11-7-05

NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING SYSTEM
(To be completed by Regional Office)

		Points Awarded
I.	IMMINENT HAZARD ASSESSMENT	
A.	Vapor Hazard - free product in confined areas or vapor phase contamination detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total	—
B.	Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	—
II.	EXPOSURE ASSESSMENT	
A.	Contaminated Water Supplies	
1.	Private, domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well	—
2.	Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	—
3.	Exceedances of Class WS-I surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	—
4.	Any water supply well identified in items II. A. 1 or II. A. 2 that cannot be replaced by connecting to an existing public water supply source; award additional 10 points per irreplaceable well	?
B.	Threat to Uncontaminated Drinking Water Supplies	
1.	Private, domestic water supply located within 1500 feet down gradient of the discharge, release or known extent of contamination; award 10 points per well	
2.	Public or institutional water supply well located within 1500 feet down gradient of the discharge, release or known extent of contamination; award 15 points per well	
3.	Raw surface water intake for public water supply located within ½ mile down gradient of the discharge, release or known extent of contamination; award 5 points per water supply system	
4.	Any well identified in items II. B. 1 or II. B. 2, or an intake item II. B. 3 located within 250 feet of the discharge, release or known extent of contamination; award additional 20 points total (not per well or intake)	
C.	Vapor Phase Exposure	
1.	Contaminant vapors detected in inhabitable building(s), but levels are below 20% of the lower explosive limit and health concern levels; award 30 points total	

2. Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.), but levels are below 20% of the lower explosive limit; award 10 points total

III. SOURCE ASSESSMENT

A. Uncontrolled or Unabated Contaminant Source (including dump sites, stockpiles, lagoon, contaminated soil, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)

1. Suspected or confirmed primary source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source

2. Active use of suspected or confirmed primary source has been discontinued or source was caused by a one-time release of product or waste; however, primary or secondary source continues to release product or contaminants into the environment; award 10 points per source

IV. ENVIRONMENTAL VULNERABILITY ASSESSMENT

A. Vertical Contaminant Migration - Literature or well logs indicates that no confining layer is present above bedrock or within twenty feet of land surface; award 10 points total

B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the discharge, release or known extent of contamination and the nearest down gradient drinking water supply; award 10 points total

C. Existing Groundwater Quality - The worst case monitor or supply well contains contaminant levels:

1. At less than 10 times the 2L groundwater standards; award 5 points 5

2. Between 10 and 100 times the 2L groundwater standards; award 20 points

3. Greater than 100 times the 2L groundwater standards; award 40 points

V. REGIONAL OFFICE RESPONSE (LETTER RANK)
(Put an X on the line next to all conditions that apply.)

CATEGORY A (one or more of the following conditions are present)

1. One or more water supply wells are contaminated and the persons using the wells are not served by an existing public water supply. X

2. Petroleum vapors are present in confined areas at levels which pose a human health concern or an explosion hazard.

3. A treated surface water supply is in violation of the drinking water standards set out in rules adopted by the Commission for Health Services under G.S. 130A-315.

CATEGORY B (one or more of the following conditions are present)

1. One or more water supply wells are contaminated but the persons using the wells are served by an existing public water supply.

2. One or more water supply wells are in use within 1500 feet of the discharge, release or known extent of contamination, the wells are not contaminated, and the persons using the wells are not served by an existing public water supply. _____

3. Petroleum vapors are present in confined areas but do not currently pose a threat to human health or an explosion hazard. _____

CATEGORY C (both of the following conditions are present)

1. One or more water supply wells are present at a distance greater than 1500 feet of the discharge, release or known extent of contamination, and the persons using the wells are not served by an existing public water supply. _____

2. None of the identified water supply wells are contaminated. _____

CATEGORY D (both of the following conditions are present)

1. One or more water supply wells are present within 1500 feet of the discharge, release or known extent of contamination, but the persons using the wells are served by an existing public water supply. _____

2. None of the identified water supply wells are contaminated. _____

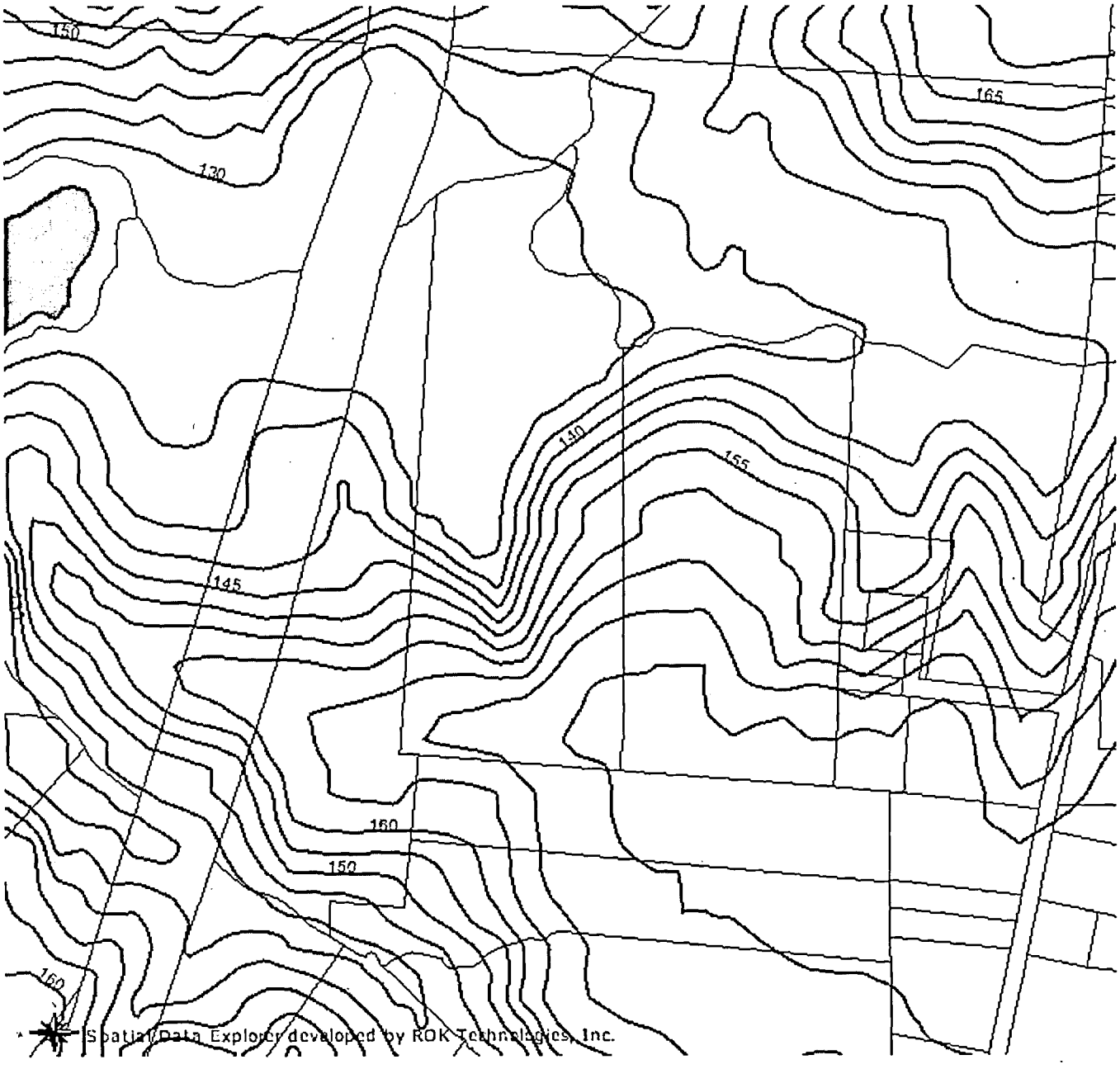
CATEGORY E (both of the following conditions are present)

1. Water supply well(s) are not present within 1500 feet of the discharge, release or known extent of contamination, and no known water supply well(s) are contaminated. _____

2. All persons within 1500 feet of the discharge, release or known extent of contamination are served by an existing public water supply. _____

TOTAL POINTS AWARDED

_____
#/Letter


150
165
130
140
155
145
160
150
160
Spatial Data Explorer developed by ROK Technologies, Inc.

Incident Name: Perry / Young Property Region/County WiRO / Wayne

GW Incident File #: 87189 Date: 2-16-2005

75/B

NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING FORM
(To be completed by a North Carolina Licensed Geologist/Professional Engineer or by the appropriate Regional Office)

	Points Awarded
I. IMMINENT HAZARD ASSESSMENT	
A. Vapor Hazard - free product in confined areas or vapor phase contamination detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total	0
B. Fire Hazard - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	0
II. EXPOSURE ASSESSMENT	
A. Contaminated Water Supplies	
1. Private domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well	0
2. Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	0
3. Exceedences of Class WS surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	0
4. Any water supply well identified above that cannot be replaced by connecting to an existing public water supply source; award additional 10 points per irreplaceable well	
B. Threat to Uncontaminated Drinking Water Supplies	
1. Private, domestic water supply located within 1500 feet down gradient of the discharge or known extent of contamination; award 10 points per well	10
2. Public or institutional water supply located within 1500 feet down gradient of the discharge or known extent of contamination; award 15 points per well	
3. Raw surface water intake for public water supply located within 1/2 mile down gradient of the discharge or known extent of contamination; award 5 points per water supply system	0
4. Any well or intake identified in items II B. 1 or II B. 2, or II. B. 3 located within 250 feet of the discharge or known extent of contamination; award additional 20 points total (<u>not</u> per well or intake)	20
C. Vapor Phase Exposure	
1. Contaminant vapors detected in inhabitable building(s), but levels are below 20% of the lower explosive limit and health concern levels; award 30 points total.	0

2. Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.), but levels are below 20% of the lower explosive limit and health concern levels; award 10 points total — 0

III. SOURCE ASSESSMENT

A. Uncontrolled or Unabated Contaminant Source (including dump sites, stockpiles, lagoons, contaminated soil, septic tanks, land fills, above ground storage tanks, etc.)

1. Suspected or confirmed primary source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source — 30

2. Active use of suspected or confirmed primary source has been discontinued or source was caused by a one-time release of product or waste; however, primary or secondary source continues to release product or contaminants into the environment; award 10 points per source — 0

IV. ENVIRONMENTAL VULNERABILITY ASSESSMENT

A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or within twenty feet of land surface; award 10 points total — 10

B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the discharge or known extent of contamination and the nearest down gradient drinking water supply; award 10 points total — 10

C. Existing Groundwater Quality – The worst case monitoring or supply well contains contaminant levels:

1. At less than 10 times the 2L groundwater standards; award 5 points. — 5

2. Between 10 and 100 times the 2L groundwater standards; award 20 points. — ~~0~~

3. Greater than 100 times the 2L groundwater standards; award 40 points. — ~~0~~

V. LETTER RANKING

(Put an X on the line next to all conditions that apply)

CATEGORY A (one or more of the following conditions are present)

1. One or more water supply wells are contaminated and the person using the wells are not served by an existing public water supply. ____

2. Contaminant vapors are present in confined areas at levels that pose a human health concern or an explosion hazard. ____

3. A treated surface water supply is in violation of the drinking water standards set out in rules adopted by the Commission for Health Services under G.S. 130A-315. ____

CATEGORY B (one or more of the following conditions are present)

1. One or more supply wells contaminated but the persons using the wells are served by an existing public water supply. ____

2. One or more supply wells are in use within 1500 feet of the discharge or known extent of contamination, the wells are not contaminated, and the persons using the wells are not served by an existing public water supply. ____

3. Vapors are present in confined areas but do not currently pose a threat to human health or an explosion hazard. _____

CATEGORY C (both of the following conditions are present)

1. One or more water supply wells are present at a distance greater than 1500 feet down gradient from the discharge or known extent of contamination, and the persons using the wells are not served by a public water supply. _____

2. None of the identified wells are contaminated. _____

CATEGORY D (both of the following conditions are present)

1. One or more wells are present within 1500 feet of the discharge or known extent of contamination, but the persons using the wells are served by an existing public water supply _____

2. None of the identified wells are contaminated. _____

CATEGORY E (both of the following conditions are present)

1. Water supply well(s) are not present within 1500 feet of the discharge or known extent of contamination; and no known water supply wells are contaminated. _____

2. All persons within 1500' of the discharge or known extent of contamination are served by an existing public water supply. _____

SITE PRIORITY RANKING _____
#/Letter

I, _____ a Professional Engineer / Licensed Geologist (circle one) for _____ (firm or company of employment) do certify that the information used to determine the site priority ranking is correct and accurate to the best of my knowledge.

(Please Affix Seal and Signature)


150
155
160
170


US 117 ALTERNATE
(300)
(225)
210
25
(190)
60
1458
367.6
31.08
Spatial Data Explorer developed by ROK Technologies, Inc.

Incident Report

Report Number: 200502429

Incident Type: Complaint
Category: Other
Incident Started: 09/15/2005
County: Wayne
City:
Farm #:

On-Site Contact: JOHNNIE PERRY
First/Mid/Last Name: John Powers
Company Name:
Phone: (919)734-8455
Pager/Mobile Phone: / (919)738-1144

Responsible Party:

Owner:
Permit:
Facility:
First Name:
Middle Name:
Last Name:
Address
City/State/Zip:
Phone:

Reported By:

First/Mid/Last Name: Kevin Whitley
Company Name:
Address: Wayne County Env Health De
310 N Herman St Box CC
City/State/Zip: Goldsboro NC 27530
Phone: (919)731-1174
Pager/Mobile Phone: /

Material Category:	Estimated Qty:	UOM	Chemical Name	Reportable Qty. lbs.	Reportable Qty. kgs.

DD:MM:SS Decimal

Latitude:
Longitude:

Position Method:
Position Accuracy:
Position Datum:

Location of Incident: Young's Auto Center
Address: 4172 US Hwy 117 S Alt
City/State/Zip Dudley NC 28333

Cause/Observation:

Wayne County Environmental Health Dept sampled water supply well. Sample came back with petroleum constituents. Homeowner (John Powers) is concerned. Homeowner and well is surrounded by Young's Auto Center. Suspect contamination is coming from the salvage pond. Health Dept to fax over lab results. Homeowner has been contacted and advised not to drink the water.

Directions:

Young's Auto Center. 4172 US HWY 117 South (Alt), Dudley NC 28333.

Action Taken:

Scheduled visit.

Comments:

Incident Questions:

Did the Material reach the Surface Water? Unknown Conveyance :

Surface Water Name?

Did the Spill result in a Fish Kill? Unknown Estimated Number of fish?

If the Spill was from a storage tank indicate type. (Above Ground or Under Ground)

Containment? Unknown

Cleanup Complete? Unknown

Water Supply Wells within 1500ft : Unknown Groundwater Impacted : Unknown

Event Type	Event Date	Due Date	Comment
Incident closed			
Requested Additional Information			
Report Entered	2005-09-15 11:03:34		
Incident Start	2005-09-15 10:45:00		

Report Received	2005-09-14 03:00:00
Referred to Regional Office - Primary Contact	2005-09-14 03:00:00

Standard Agencies Notified:

Agency Name	Phone	First Name	M.I.	Last Name	Contact Date

Other Agencies Notified:

Agency Name	Phone	First Name	M.I.	Last Name	Contact Date

DWQ Information:

	Report Taken By:	Report Entered By:	Regional Contact:
	David L May	Robert Boone	David L May
Phone:			
Date/Time:	2005-09-14 03:00:00 PM	2005-09-15 11:03:34 AM	2005-09-14 03:00:00 PM
Referred Via:	Phone		Phone

Did DWQ request an additional written report?

If yes, What additional information is needed?

AQUIFER PROTECTION SECTION
APPLICATION REVIEW REQUEST FORM

Date: August 31, 2005

To:
- ☐ Landon Davidson, ARO-APS
- ☐ Art Barnhardt, FRO-APS
- ☐ Andrew Pitner, MRO-APS
- ☐ Jay Zimmerman, RRO-APS
- ☒ **David May, WaRO-APS**
- ☐ Charlie Stehman, WiRO-APS
- ☐ Sherri Knight, WSRO-APS

From: Thomas Slusser, Groundwater Protection Unit
Telephone: (919) 715-6166 TLS *Fax:* (919) 715-0588
E-Mail: thomas.slusser@ncmail.net

RECEIVED
SEP - 7 2005
WASHINGTON REGIONAL OFFICE
DWQ

A. Permit Number: WI0700087

B. Owner: ASHTON LEWIS LUMBER COMPANY

C. Facility/Operation: _____
☐ Proposed ☒ Existing ☐ Facility ☐ Operation

D. Application:

1. Permit Type: ☐ Animal ☐ Surface Irrigation ☐ Reuse ☐ H-R Infiltration
☐ Recycle ☐ I/E Lagoon ☐ GW Remediation (ND)
☒ UIC - (5A7) open loop geothermal _____

For Residuals: ☐ Land App. ☐ D&M ☐ Surface Disposal
☐ 503 ☐ 503 Exempt ☐ Animal

2. Project Type: ☒ New ☐ Major Mod. ☐ Minor Mod. ☐ Renewal ☐ Renewal w/ Mod.

E. Comments/Other Information: ☐ I would like to accompany you on a site visit.

_____

Attached, you will find all information submitted in support of the above-referenced application for your review, comment, and or action. Within 30 calendar days, please take the following actions:

- ☐ Return a Completed Form APSSRR.
- ☐ Attach Well Construction Data Sheet.
- ☐ Attach Attachment B for Certification by the LAPCU.
- ☐ Issue an Attachment B Certification from the RO*.

* Remember that you will be responsible for coordinating site visits, reviews, as well as additional information requests with other RO-APS representatives in order to prepare a complete Attachment B for certification. Refer to the RPP SOP for additional detail.

When you receive this request form, please write your name and dates in the spaces below, make a copy of this sheet, and return it to the appropriate Central Office-Aquifer Protection Section contact person listed above.

RO-APS Reviewer: _____ **Date:** _____

Complaint for BIMS

Reported To: David May 3:00 - 9-14-05

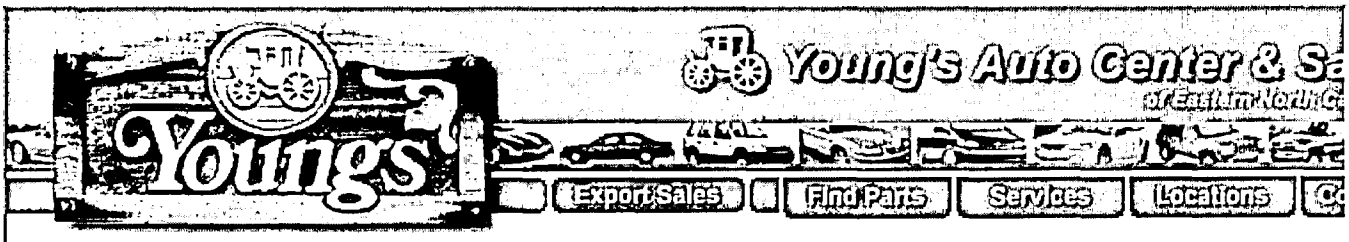
Reported by: Kevin Whitley - Wayne County Environmental Health Dept,
919-731-1174

Problem - Wayne County EHD sampled water supply well.
Sample came back w/ petroleum constituents.
Homeowner is concerned. Homeowner and well
is surrounded by Youngs Auto Center, suspect
contamination is coming from the salvage yard.
Health Dept to fax over lab results. Homeowner
has been contacted and advised not to drink the water.

Homeowner - John Powers
cell - 919-738-1144
home 919-734-8455

Location - Youngs Auto Center
4172 US Hwy 117 South (Alt)
Dudley NC
Wayne County

200502424



Visit or Contact Us at our following Locations:

Young's Auto Center & Salvage
2500 NC 242 South
Benson, NC
(919) 894-4525
(800) 800-2290
Map to Location
E-Mail

Young's Auto Center
878 Hwy 231 South
Spring Hope, NC
(910) 478-4116
(800) 800-1952
Map to Location
E-Mail

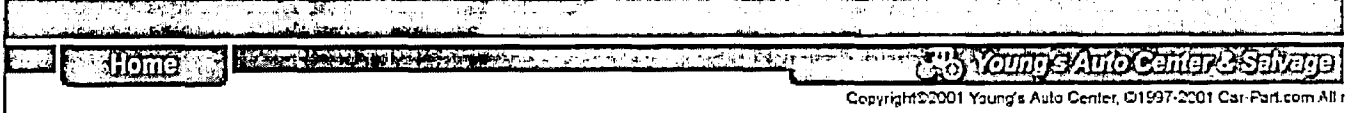
Spring Lake Auto Center
1305 Hwy 210 North
Spring Lake, NC
(910) 436-3820
(866) 201-4604
Map to Location
E-Mail

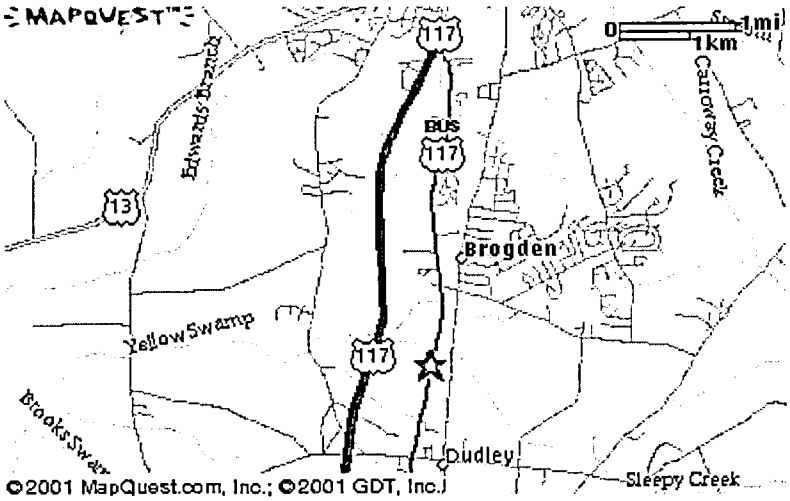
Young's Auto Center & Salvage
4172 US Hwy 117 South (Alt)
Dudley, NC
(910) 734-2442
(800) 672-5844
Map to Location
E-Mail

Young's U-Pull-It
4172 US Hwy 117 South
Dudley, NC
(919) 734-3446
(800) 672-5844

Young's Auto Crushing Division
2500 NC 242 South
Benson, NC
(800) 800-1992
(919) 894-9566 (cell)
E-Mail

Young's Export Sales




MAPQUEST
0
1mi
1km
117
BUS
117
13
Brogden
Canaway Creek
Yellow Swamp
117
Dudley
Sleepy Creek
©2001 MapQuest.com, Inc.; ©2001 GDT, Inc.

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

County: WAYNE
Quad No: Serial No:
Lat: Long:

SAMPLE TYPE: [X] Water [ ] Soil [ ] Other [ ] Chain of Custody
SAMPLE PRIORITY: [ ] Routine [X] Emergency

TAP WATER

Lab Number:
Date Received: Time:
Rec'd By: From:Bus, Courier, Hand Del.,
Other:
Data Entry By: Clc:
Date Reported:

Report To: ARO, FRO, MRO, RRO, (WaRO) WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, (Courier) Hand Del., Other:
Collector(s): C.STONE Date 9.27.05 Time 10:35 AM Purpose: Baseline (Complaint) Compliance, UST, Pesticide Study, Federal Trust, Other:
Owner: GREAT VALUE DISCOUNT #20 (Circle one)

FIELD ANALYSES
pH 400: Spec. Cond. 94: at 25°C
Temp. 10: °C Odor:
Appearance:
Field Analysis By:

Location or Site:
Description of sampling point:
Sampling Method: (Point Bailer, etc.)
Remarks: Sample Interval:
(Pumping time, pH temp., etc.)

LABORATORY ANALYSES

	BOD 310	mg/L		Diss. Solids 70300	mg/L		Ag Silver 46566	ug/l		Organochlorine Pesticides
	COD High 340	mg/L		Fluoride 951	mg/L		Al Aluminum 46557	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/L		Hardness: Total 900	mg/L		As Arsenic 46551	ug/l		Nitrogen Pesticides
	Coliform: MF Fecal 31616	/100ml		Hardness (non carb) 902	mg/L		Ba Barium 46558	ug/l		Acid Herbicides
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca Calcium 46552	mg/l		PCB's
	TOC 680	mg/L		Specific Cond. 95	uMhos/cm		Cd Cadmium 46559	ug/l		
	Turbidity 70	NTU		Sulfate 945	mg/L		Cr Chromium 46559	ug/L		
	Residue, Suspended 530	mg/L		Sulfide 745	mg/L		Cu Copper 46562	ug/l		
							Fe Iron 46563	ug/L		Semivolatile Organics
				Oil and Grease	mg/l		Hg Mercury 71900	ug/l		TPH Diesel Range
	pH 403	units					K Potassium 46555	mg/l		
	Alkalinity to pH 4.5 410	mg/L					Mg Magnesium 46554	mg/l		
	Alkalinity to pH 8.3 415	mg/L					Mn Manganese 46565	ug/l		Volatile Organics (VOA bottle)
	Carbonate 445	mg/L		NH_3 as N 610	mg/l		Na Sodium 46556	mg/l		TPH Gasoline Range
	Bicarbonate 440	mg/L		TKN as N 625	mg/L		Ni Nickel	ug/l		TPH BTEX Gasoline Range
	Carbon dioxide 405	mg/L		$NO_2 + NO_3$ as N 630	mg/L		Pb Lead 46564	ug/l		
	Chloride 940	mg/L		P: Total as P 665	mg/l		Se Selenium	ug/l		
	Chromium: Hex 1032	ug/L		Nitrate (NO_3 as N) 620	mg/L		Zn Zinc 46567	ug/l		
	Color: True 80	CU		Nitrite (NO_2 as N) 615	mg/L					LAB USE ONLY
	Cyanide 720	mg/L								Temperature on arrival:

Lab Comments:

GW 54 REV. 7/01 For Dissolved Analysis submit filtered sample and write "DIS" in block.

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

SAMPLE TYPE: [X] Water [ ] Soil [ ] Other [ ] Chain of Custody
SAMPLE PRIORITY: [ ] Routine [X] Emergency

WS 1.

County: WAYNE
Quad No: Serial No:
Lat: Long:

Lab Number:
Date Received: Time:
Rec'd By: From: Bus, Courier, Hand Del.,
Other:
Data Entry By: Clc:
Date Reported:

Report To: ARO, FRO, MRO, RRO, (WaRO), WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other:
Shipped by: Bus, (Courier), Hand Del., Other:
Collector(s): C. STONE Date 9-27-05 Time: Purpose: Baseline, Complaint, Compliance, UST, Pesticide Study, Federal Trust, Other: (circle one)

FIELD ANALYSES

pH 400: Spec. Cond. 94: at 25°C
Temp. 10: °C Odor:
Appearance:
Field Analysis By:

Owner: PERRY RIDDICK
Location or Site: 4172 US HWY 117 S NLR
Description of sampling point: OUTSIDE SPIGOT (REAR OF HOUSE)
Sampling Method: GRAB Sample Interval: ARCH STANDARD
Remarks: (Flow rate, etc.) (Pumping time, pH temp., etc.)

LABORATORY ANALYSES

	BOD 310	mg/L		Diss. Solids 70300	mg/L		Ag Silver 46566	ug/l
	COD High 340	mg/L		Fluoride 951	mg/L		Al Aluminum 46557	ug/l
	COD Low 335	mg/L		Hardness: Total 900	mg/L		As Arsenic 46551	ug/l
	Coliform: MF Fecal 31616	/100ml		Hardness (non carb) 902	mg/L		Ba Barium 46558	ug/l
	Coliform: MF Total 31504	/100ml		Phenols 32730	ug/l		Ca Calcium 46552	mg/l
	TOC 680	mg/L		Specific Cond. 95	uMhos/cm		Cd Cadmium 46559	ug/l
	Turbidity 70	NTU		Sulfate 945	mg/L		Cr Chromium 46559	ug/l
	Residue, Suspended 530	mg/L		Sulfide 745	mg/L		Cu Copper 46562	ug/l
							Fe Iron 46563	ug/L
				Oil and Grease	mg/l		Hg Mercury 71900	ug/l
	pH 403	units					K Potassium 46555	mg/l
	Alkalinity to pH 4.5 410	mg/L					Mg Magnesium 46554	mg/l
	Alkalinity to pH 8.3 415	mg/L					Mn Manganese 46565	ug/l
	Carbonate 445	mg/L		NH_3 as N 610	mg/l		Na Sodium 46556	mg/l
	Bicarbonate 440	mg/L		TKN as N 625	mg/L		Ni Nickel	ug/l
	Carbon dioxide 405	mg/L		$NO_2 + NO_3$ as N 630	mg/L		Pb Lead 46564	ug/l
	Chloride 940	mg/L		P: Total as P 665	mg/l		Se Selenium	ug/l
	Chromium: Hex 1032	ug/L		Nitrate (NO_3 as N) 620	mg/L		Zn Zinc 46567	ug/l
	Color: True 80	CU		Nitrite (NO_2 as N) 615	mg/L			
	Cyanide 720	mg/L						

	Organochlorine Pesticides	ug/l
	Organophosphorus Pesticides	ug/l
	Nitrogen Pesticides	ug/l
	Acid Herbicides	ug/l
	PCBs	mg/l
		ug/l
		ug/l
		ug/l
X	Semivolatile Organics	ug/L
	TPH Diesel Range	ug/l
		mg/l
X	Volatile Organics (VOA bottle)	ug/l
	TPH Gasoline Range	mg/l
	TPH BTEX Gasoline Range	ug/l
		ug/l
		ug/l
		ug/L

LAB USE ONLY
Temperature on arrival:

Lab Comments:

GW 54 REV. 7/01 For Dissolved Analysis submit filtered sample and write "DIS" in block.

DIVISION OF WATER QUALITY

Chemistry Laboratory Report / Ground Water Quality

Lab Number :	5G2373
Date Received :	9/28/2005
Time Received :	9:00 AM
Received By :	DS
Released By :	JSW
Date reported :	10/3/2005

QC 10/3/05

COUNTY : WAYNE
QUAD NO:

SAMPLE PRIORITY
[ ] ROUTINE [X] EMERGENCY

REPORT TO : WARO Regional Office
COLLECTOR(S) : C STONE
DATE: 9/27/2005
TIME: 10:35
PURPOSE: COMPLAINT

[ ] CHAIN OF CUSTODY
[W] SAMPLE TYPE
TRIP BLANK

Owner: GREAT VALUE DISTILLED H2O
Location or Site:
Description of sampling point
Sampling Method:
Remarks:

LABORATORY ANALYSIS

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC	mg/l
	Turbidity	NTU
	Residue., Suspended 530	mg/L
	Total Suspended solids	mg/L
	pH	units
	Alkalinity to pH 4.5	mg/L
	Alkalinity to pH 8.3	mg/L
	Carbonate	mg/L
	Bicarbonate	mg/L
	Carbon dioxide	mg/L
	Chloride	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	c.u.
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: total 900	mg/L
	Hardness: (non-carb) 902	mg/L
	Phenols 32730	ug/L
	Specific Cond. 95	umhos/cm2
	Sulfate	mg/L
	Sulfide 745	mg/L
	MBAS	mg/L
	Oil and Grease	mg/L
	Silica	mg/L
	Boron	
	Formaldehyde	mg/L
	NH3 as N 610	mg/L
	TKN as N 625	mg/L
	NO2 +NO3 as n 630	mg/L
	P: Total as P 665	mg/L
	PO4	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46560	ug/L
	Cu- Copper 1042	ug/L
	Fe- Iron 1045	ug/L
	Hg- Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg- Magnesium 927	mg/L
	Mn-Manganese 1055	ug/L
	Na- Sodium 929	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	Semivolatiles
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

COMMENTS :

GROUNDWATER FIELD/LAB FORM

North Carolina
Department of Environment and Natural Resources
DIVISION OF WATER QUALITY-GROUNDWATER SECTION

County WAYNE
Quad No _____ Serial No. _____
Lat. _____ Long. _____

SAMPLE TYPE: ☑ Water ☐ Soil ☐ Other ☐ Chain of Custody
SAMPLE PRIORITY: ☐ Routine ☑ Emergency

TRIP BLANK

Lab Number 5G2373
Date Received 9/28/05 Time 9:00
Rec'd By: DS From: Bus, Courier, Hand Del.,
Other: _____
Data Entry By: _____ Ck: _____
Date Reported: _____

Report To: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO, Fed. Trust, Central Off., Other: _____
Shipped by: Bus, Courier, Hand Del., Other: _____
Purpose:
Collector(s): C. STONE Date 9-27-05 Time 10:35 AM Baseline, Complaint, Compliance, LUST, Pesticide Study, Federal Trust, Other: _____ (circle one)
Owner GREAT VALUE DISTILLED H2O
Location or Site _____
Description of sampling point _____
Sampling Method _____ (Pump, bailer, etc.) Sample Interval _____
Remarks _____ (Pumping time, air temp., etc.)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C
Temp. 10 _____ °C Odor _____
Appearance _____
Field Analysis By: _____

LABORATORY ANALYSES

	BOD 310	mg/L
	COD High 340	mg/L
	COD Low 335	mg/L
	Coliform: MF Fecal 31616	/100ml
	Coliform: MF Total 31504	/100ml
	TOC 680	mg/L
	Turbidity 76	NTU
	Residue, Suspended 530	mg/L
	pH 403	units
	Alkalinity to pH 4.5 410	mg/L
	Alkalinity to pH 8.3 415	mg/L
	Carbonate 445	mg/L
	Bicarbonate 440	mg/L
	Carbon dioxide 405	mg/L
	Chloride 940	mg/L
	Chromium: Hex 1032	ug/L
	Color: True 80	CU
	Cyanide 720	mg/L

	Diss. Solids 70300	mg/L
	Fluoride 951	mg/L
	Hardness: Total 900	mg/L
	Hardness (non-carb) 902	mg/L
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm
	Sulfate 945	mg/L
	Sulfide 745	mg/L
	Oil and Grease	mg/L
	NH_3 as N 610	mg/L
	TKN as N 625	mg/L
	$NO_2 + NO_3$ as N 630	mg/L
	P: Total as P 665	mg/L
	Nitrate (NO_3 as N) 620	mg/L
	Nitrite (NO_2 as N) 615	mg/L

	Ag-Silver 46566	ug/L
	Al-Aluminum 46557	ug/L
	As-Arsenic 46551	ug/L
	Ba-Barium 46558	ug/L
	Ca-Calcium 46552	mg/L
	Cd-Cadmium 46559	ug/L
	Cr-Chromium 46559	ug/L
	Cu-Copper 46562	ug/L
	Fe-Iron 46563	ug/L
	Hg-Mercury 71900	ug/L
	K-Potassium 46555	mg/L
	Mg-Magnesium 46554	mg/L
	Mn-Manganese 46565	ug/L
	Na-Sodium 46556	mg/L
	Ni-Nickel	ug/L
	Pb-Lead 46564	ug/L
	Se-Selenium	ug/L
	Zn-Zinc 46567	ug/L

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Nitrogen Pesticides
	Acid Herbicides
	PCBs
	Semivolatile Organics
	TPH-Diesel Range
X	Volatile Organics (VOA bottle)
	TPH-Gasoline Range
	TPH-BTEX Gasoline Range

LAB USE ONLY
Temperature on arrival: 6 C

Lab Comments _____

GW-54 REV. 7/03 For Dissolved Analysis-submit filtered sample and write "DIS" in block.

ENR/DWQ LABORATORY
VOLATILE ANALYTICAL REPORT

LAB NO. 5G2373

REPORTED BY VA VA
CHECKED BY AT
REVIEWED BY

SUPERVISOR R.E.K.
DATE 9/30/05

ENTERED BY JSW
DATE 10/3/05

SAMPLE TYPE: WATER

ANALYTICAL RESULTS

CAS#	VOA TARGET COMPOUND	PQL ug/L	DETECTED ug/L	CAS#	VOA TARGET COMPOUND	PQL ug/L	DETECTED ug/L
75-71-8	Dichlorodifluoromethane	0.25	U	630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
74-87-3	Chloromethane	0.50	U	75-25-2	Bromoform	0.50	U
75-01-4	Vinyl Chloride	0.50	U	79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
74-83-9	Bromomethane	0.50	U	96-18-4	1,2,3-Trichloropropane	0.25	U
75-00-3	Chloroethane	0.50	U	108-86-1	Bromobenzene	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U	95-49-8	2-Chlorotoluene	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U	106-43-4	4-Chlorotoluene	0.25	U
75-09-2	Methylene Chloride	10	U	541-73-1	1,3-Dichlorobenzene	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U	106-46-7	1,4-Dichlorobenzene	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U	95-50-1	1,2-Dichlorobenzene	0.25	U
594-20-7	2,2-Dichloropropane	0.25	U	96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
156-59-4	cis-1,2-Dichloroethene	0.25	U	120-82-1	1,2,4-Trichlorobenzene	0.25	U
67-66-3	Chloroform	0.25	U	87-68-3	Hexachlorobutadiene	0.25	U
74-97-5	Bromochloromethane	0.25	U	87-61-6	1,2,3-Trichlorobenzene	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U	1634-04-4	Methyl-tert-butyl ether	0.25	U
563-58-6	1,1-Dichloropropene	0.25	U	71-43-2	Benzene	0.25	U
56-23-5	Carbon Tetrachloride	0.25	U	108-88-3	Toluene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U	100-41-4	Ethyl benzene	0.25	U
79-01-6	Trichloroethene	0.25	U	108-38-3	m,p-Xylenes	0.50	U
78-87-5	1,2-Dichloropropane	0.25	U	95-47-6	o-Xylene	0.25	U
75-27-4	Bromodichloromethane	0.25	U	100-42-5	Styrene	0.25	U
74-95-3	Dibromomethane	0.25	U	98-82-8	Isopropylbenzene	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U	103-65-1	n-Propylbenzene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U	108-67-8	1,3,5-Trimethylbenzene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U	98-06-6	tert-Butylbenzene	0.25	U
127-18-4	Tetrachloroethene	0.25	U	95-63-6	1,2,4-Trimethylbenzene	0.25	U
142-28-9	1,3-Dichloropropane	0.25	U	135-98-8	sec-Butylbenzene	0.25	U
124-48-1	Dibromochloromethane	0.25	U	99-87-6	p-Isopropyltoluene	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U	104-51-8	n-Butylbenzene	0.25	U
108-90-7	Chlorobenzene	0.25	U	91-20-3	Naphthalene	0.25	U

	mg/L	mg/L
Gasoline Range Estimated Total Petroleum Hydrocarbon	0.20	X

Other purgeables detected (up to 10 highest peaks)	Detected ug/L
NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/MS.	

PQL Practical Quantitation Limit- Subject to change due to instrument sensitivity
N- Tentatively Identified, not confirmed
J- Estimated Value
U- Samples analyzed for this compound but not detected
X- Sample not analyzed for this compound
N3- Estimated concentration is <PQL and >MDL
GC/MS Analysis performed

COMMENTS: